The American Artisan
And Hardware Record

Vol. 55. No. 12. CHICAGO, MARCH 21, 1908. $2.00 Per Year.

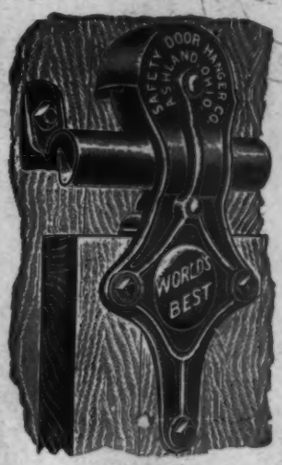
All Kinds of
BOLTS, RIVETS, NUTS, WASHERS, CARRIAGE FORGINGS, ETC.
Send for 1908 Catalog "R" Prices on Application
COLUMBUS BOLT WORKS
COLUMBUS, OHIO

IN THE FRONT RANK FOR 25 YEARS
"AMERICAN SEAL"
ELASTIC OIL ROOFING CEMENT
STOVE PUTTY and ASBESTOS
FURNACE CEMENT
and the superior quality of these goods is still universally recognized.
THE WM. CONNORS PAINT MFG. COMPANY
MAKERS
TROY, N. Y.
Western Agent
FRIEDLEY-VOSHARDT CO.
194-204 Mather Street, Chicago, Ill.
Southwestern Agent
STOCKHOFF SUPPLY COMPANY
107 N. Main St., St. Louis, Mo.

TRYING to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

The Hardware Merchant who sells good goods
SELLS ORIGINAL
MATCHLESS
Floor Hinge, Jamb Hinges, and Hardware Specialties.
If your Jobber cannot furnish them, write us.
LAWSON MFG. CO
40 Dearborn St., Chicago, Ill.

NEW DESIGN WORLD'S BEST TUBULAR TRACK DOOR HANGER



We have increased the diameter of the wheel to 2¼ in., making it the easiest running Hanger on the market.
The supplementary wheel prevents derailment. Frame is made of best grade malleable iron. Finished in Aluminum and each pair packed in an individual box, complete with bolts. The track brackets are slidable and may be placed at any point desired. We do not sell catalog houses. Write for prices.
SAFETY DOOR HANGER CO.
Manufacturers
Ashland, Ohio Hamilton, Ont., Can.

"NEVER-BREAK"
TRADE MARK

Catalog Free
"NEVER-BREAK"
Steel Spiders, Griddles & Kettles
WILL NOT
Scale Off like cheap enamel
WILL NOT
Scorch or Burn like light fry-pans and skillets.
WILL NOT
Absorb Grease or Flavors the cast iron.
THE AVERY STAMPING CO.
CLEVELAND, OHIO
Sole Manufacturers
"NEVER-BREAK" Goods.

WHY USE INFERIOR FILES WHEN YOU CAN GET
FILES OF QUALITY
DELTA FILES
TRADE MARK DELTA
NO OTHERS AS GOOD IMPOSSIBLE TO IMPROVE ON
Made by an independent organization, not connected with any TRUST in any form, shape or manner.
CARVER FILE CO., Philadelphia, Pa.

$750.00 FREE!

$500.00 in Cash
$250.00 in Premiums
First Prize $100.00
Send for particulars.
Pullman Mfg. Company
Sophia Street, ROCHESTER, N. Y., U. S. A.

The Largest Assortment of HONES in the world

Also a complete line of cutlery, razor strops and hardware specialties.
S. R. DROESCHER
Importer and Manufacturer
79 Warren St., New York, N. Y.

A STOVE WITH "SEARCH LIGHT" NICKEL

The Brilliant Cinderella

New for 1908—"Hot off the Griddle"

SPECIFICATIONS

Five Flues—3 for Radiation—2 for Double Heating.
Lift off Nickel—Lift out Fire Pots—Ransom Duplex Grate.
Fine Fitting—Full Sizes—Full Weight.
Triple Coated "Search Light" Nickel on Copper Base.
13—14 and 15.

NOTE—Our 15 in. stoves equal in fire pot and body, stoves that are usually sold as 16 in.

It is Magnetic in Appearance
A Masterpiece in Construction

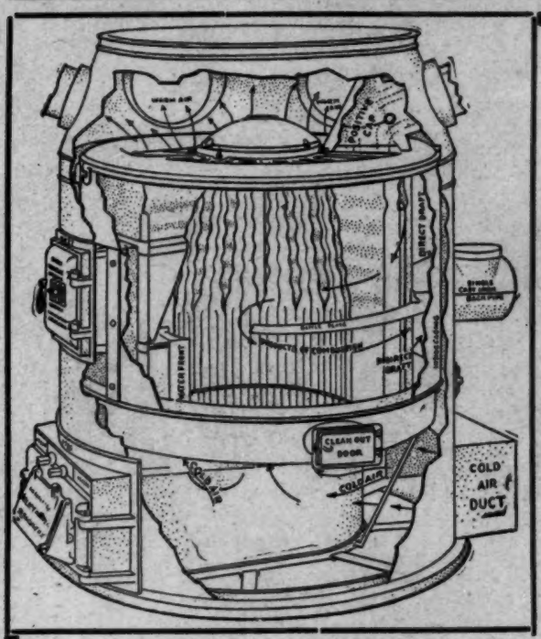
If you see a sample you will buy a stock, for it is salesmanship portrayed in cold cast iron — you will not be able to resist it when you hear its price.

Of course it has its equals but they are being sold for a whole lot more money—Write for prices—We make stoves in Pittsburgh.

Stove & Range Co. of Pittsburgh

PITTSBURGH, PA.

Western Agency—W. D. Sager, 38 to 40 Michigan Street, Chicago, Ill. He has samples ready.



There's Good Money in the Heating Business

If you happen to be on the fence and don't know whether it will pay to do much furnace business this year or not—we'd like to have your name and address!

We've got a proposition to make to you!

We can point out—and mighty clearly, too!—How you can round up some very profitable heating contracts this season, and lay a foundation that will give you the cream of the heating business in your vicinity for years to come.

Take our word for it,—this proposition is worth asking for!

We're in earnest—and we know you will be, too, just as soon as you see what it means to you!

Shall we tell you all about it?

KELSEY HEATING COMPANY

SYRACUSE, N. Y.

New York: 156 Fifth Ave. **Chicago, Van Evera & Lewis Mfg. Co. 104-106 W. Lake St.**

James Smart Mfg. Co., Brockville, Ont., Sole Makers for Canada

WE DO NOT CLAIM OUR RADIATOR TO BE THE BEST

WE PROVE IT!

Let Us Demonstrate to You.

Monitor Front Flue Radiator

Five Oval Front Flues

The Greatest Achievement in Stove making

The Only Stove of Its Kind Made

Write to-day and Secure the Agency.

The Champion Monitor Steel Range Has No Equal

AS TO STYLE AND DURABILITY.

Very moderate in price, considering weight, construction and quality.

Our New Catalogue is now ready. Do you want a copy?

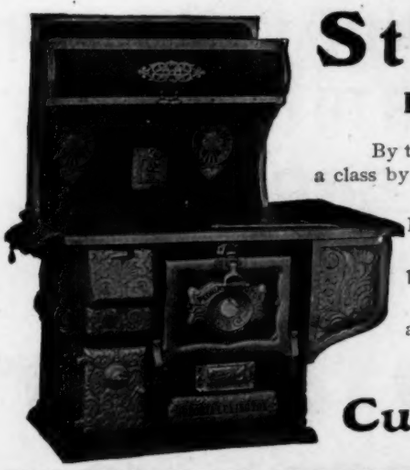
We manufacture a complete line of Coal and Gas Heating and Cooking Stoves and Ranges, the equal of which cannot be found.

Write and Secure Agency at once Before your Competitor does it

The Monitor Stove & Range Co. Cincinnati

MORLEY BROS., Saginaw, Mich., distributors for the State of Michigan.
GREAT WESTERN STOVE & REPAIR CO., Minneapolis, Minn., Northwestern Distributors
JOHN KONTNY, Chicago, Ills., Distributor for Illinois
THE MORLEY-MURPHY HARDWARE CO., Green Bay, Wis. Distributors for Wisconsin

Champion Monitor Steel Range



Stove Satisfaction

Is Secured in PEORIA, LEXINGTON STEEL RANGES

By the use of time, money, skill and ingenuity, we have produced a Range that is in a class by itself.

They're made with double walls of heaviest steel, lined with heavy Asbestos Mill board. Hand riveted every two inches with **steeple head** rivets.

The Double Flue Bottom holds the heat in oven and insures quick, even baking.

We issue printed matter giving full explanation regarding the features you and your customers will appreciate and recommend.

WRITE TO-DAY

Culter & Proctor Stove Company

Hamilton and Water Streets, PEORIA, ILL.

A Strong Selling Combination

When you consider the quality of materials we use and the quality of finish we produce in the manufacture of

Champion Steel Ranges

You will readily see what a strong selling combination we offer you. By selling the *Champion Steel Range*

You Can Successfully

overcome the cut-price, cut-quality kinds of competition and make a good profit too. Your interest in our catalog is sure to be of money making benefit to you. Send for it.

Champion Steel Range Co.,

CLEVELAND, OHIO.

BOOKS BY MAIL.

☞ **The publisher of THE AMERICAN ARTISAN will take pleasure in supplying Books, of whatever character, at catalogue prices, prepaid by mail, to any address, on receipt of price. The following are in lines especially represented by this journal.**

NO BOOKS EXCHANGED

SHEET METAL WORKING.

GRAY'S PERFECT ELBOW PATTERNS.

On heavy blue print paper. From one inch to twenty inches; price $1.50, prepaid. From twenty inches to forty inches, price $1.50, prepaid. From one inch to forty inches, made in 2, 3, 4, 5, 6 7 and 8 pieces with 160 patterns and angle chart showing all angles and degrees of same gotten from 160 patterns, price $3.00, prepaid.

GRAY'S PERFECT SKYLIGHT PATTERNS.

For single pitch, gable and hip skylights. Contains 6 to 8 and 10-inch ventilator patterns and skylight chart, giving the length to cut hip and rafter bars for any size skylight up to 24 feet wide, for ⅓ pitch skylights. Full set of patterns and charts. Price, $3.50, prepaid.

TIN, SHEET IRON AND COPPER PLATE WORK.

This is a work of the greatest value to all who work in sheet metal. It describes the method of laying out nearly everything which the metal worker will be called upon to make. Joints, elbows, and all kinds of kitchen utensils are fully described. The work is supplemented by rules for mensuration and hundreds of valuable receipts. By L. J. Blinn. This book contains 296 pages with 169 illustrations, bound in cloth. Price, $2.50.

TINNERS' HELPER AND PATTERN BOOK.

By H. K. Vosburgh. Rules, diagrams, tables, 123 pp, 53 figures. Price, $1.00.

PATTERN-MAKERS' HANDYBOOK.

A valuable work for the beginner. It is thoroughly practical and has a deservedly large sale. By P. N. Hasluck. Price 50c; 50c edition is paper.

THE CORNICE WORK MANUAL

Is a 240-page book, illustrated with 104 engravings. It is thoroughly indexed and attractively gotten up, with substantial red cloth covers, embossed in gold. Chapters treat of The Cutters' Bench, Drawing Tools and Angles, Cutters' Tools, The Entablature, The Reading of Drawings, The Measuring of Cornices, Estimating, Right Angle Mitre Patterns, Bracket Patterns for Panel Sections, Right Angle Return Mitre Patterns, Patterns for a Pediment and Their Development, Patterns for a Segmental Section of a Pediment. Details and Patterns for a Finial, Bracings and Fastenings of Cornices to Buildings, Staging and Scaffolding for Cornice Work, Ornament Stamping Machine, The Management of Ropes and Hoisting Tackle, Plan and Details of a Gable and Horizontal Cornice, Detail of Slating and Slaters' Tools, Details for Horizontal and Raking Mitre Patterns, and the development of Details and Patterns of the Turrets. Price, $3.50.

THE TINSMITHS' PATTERN MANUAL.

A 250-page book, containing over 200 illustrations. By Joe K. Little. This book gives several methods for developing some of the most difficult and complicated patterns. It also devotes considerable attention to patterns of irregular shape and unequal taper. The laying off of patterns by triangulation is shown at length. This book is eminently practical and is recognized as the paramount practical authority in its chosen field. Price, $3.50 per copy.

SHEET METAL WORKERS' GUIDE.

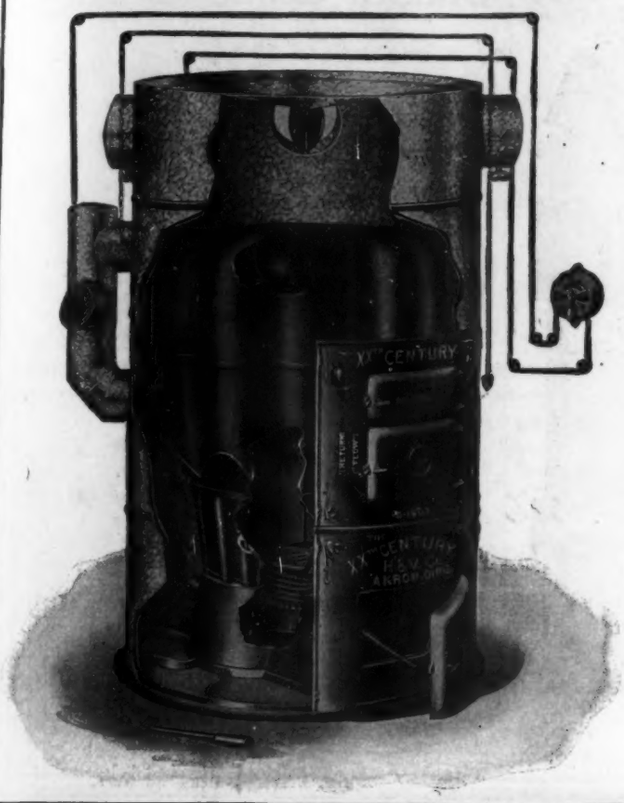
A collection of rules and diagrams, for describing the most useful patterns ordinarily required, preceded by chapters on Sheet Metal Work, Soldering, Geometry as applied to Sheet Metal Working. By W. J. E. Crane. Price, postpaid, 60 cents.

100 TINNERS' PATTERNS.

THE AMERICAN ARTISAN Full Size Patterns printed on manilla paper, from which they are readily transferred to heavy sheets and cut out ready for use. Price, sent postpaid, for the full set of 100 patterns, $1.

DANIEL STERN, PUBLISHER AND BOOKSELLER, 69 DEARBORN STREET, CHICAGO

OUR "D SERIES" FURNACE



Is a splendid heater. It is of all cast construction and practically indestructible. Is a quick worker and possesses the very best features of furnaces of this type.

Note the all cast radiator which affords a wonderful amount of radiating surface.

Big Fire Pot, big ash pit, big combination feed door, big radiating surface.

A perfect worker. Economical, reliable, durable, prompt.

For an all around excellent heating furnace there is none better than our "D Series." Made with either a Drop Front or Revolving Grate, which are interchangeable.

Made in five numbers — 150, 250 350, 450 and 550.

Get Our Catalogue

The XXth Century Heating & Ventilating Co.

Manufacturers of the Original and Only Genuine Line of XXth Century Heaters

AKRON, OHIO

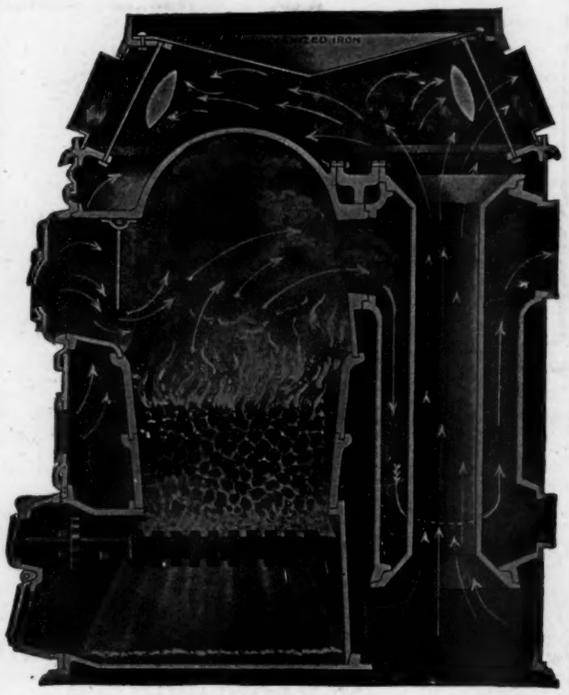
Monarch Air Blast

All the advantages of our famous MONARCH plus the air blast. This is a sectional upper fire pot constructed so that oxygen is fed into and above the fuel burning the gases, assuring economy, cleanliness. It is the most practical soft coal furnace offered the trade.

Forest City Foundry & Mfg. Co.

CLEVELAND, OHIO

Mfrs. The Imperial, Niagara and Combination Furnaces, Registers, Mail Boxes, Hitching and Sash Weights, Etc. Write for our new Catalog.



Shaded Sectional Cut

of the

"Low Down" Crown Warm Air Furnace

Designed to show the direction taken by the gases and warm air. Also the thickness and staunchness of its parts.

March-Brownback Stove Co.

POTTSTOWN, PA.

New Steel Dome Double Return Flue Furnace

BOYNTON'S

New Steel Dome Double Return Flue Furnace

for burning coal and wood is the Best and latest type of wrought plate furnace on the market.

Like all Boynton Furnaces the **Steel Dome Return Flue Furnace,** maintains the general excellence, modern design and absence of complications which have made **The Boynton** the best and most complete line of furnaces made.

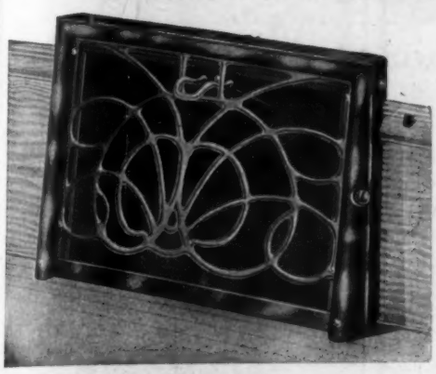
Fitted with Boynton's Patented Square Fire Pot and Square Ash Pit.

The smoke pipe damper is both direct and indirect and adjusted by a rod passing over the top of the furnace. Boynton's new patent regulating ventilator furnished with each furnace.

The Boynton Furnace Co.

147 Lake St. **CHICAGO**
207-209 Water St. **NEW YORK**

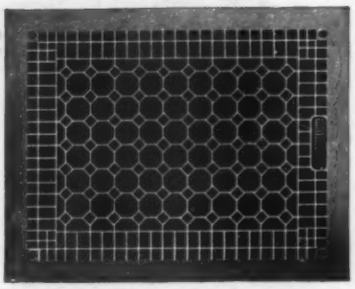
SEMI STEEL FLOOR REGISTERS



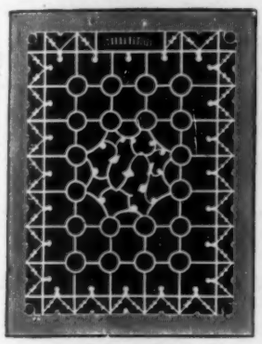
in all sizes and finishes. Neat in design, Strong, Light in Weight.

Mueller Wall Registers

both steel and cast, in various sizes and finishes, and with the most simple and durable operation. No parts to get out of order.



L. J. Mueller Furnace Co. Established 1857 **191 Reed St., Milwaukee, Wis.**



REGISTERS

NOT IN THE ASSOCIATION. OUR DISCOUNT 80 and 5%.

MAKERS OF ALL CAST WARM AIR REGISTERS, neat in design, and superior in finish, interchangeable with all first-class makes, and will wear a life-time.
Why buy the so-called Semi-Steel or Stamped Register? They are only imitations.
We are the largest makers of registers in the country. Our own foundry with molding capacity of 200 molders.
Get the Association's discount and compare it with ours. You will see how much we can save you.
We carry a large stock insuring prompt shipment.

STANDARD REGISTER COMPANY

Register Dept., Standard Foundry & Mfg. Co., CLEVELAND, OHIO

TASTES DIFFER IN FURNACES

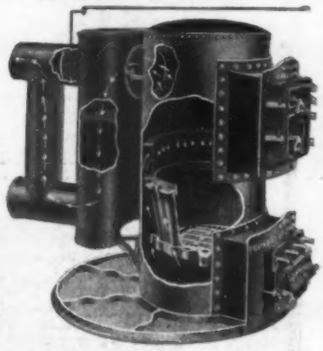
As in Everything Else.

Green's Colonial Furnace.

One style of furnace will not please all of your customers. One man wants a steel furnace, another a cast iron furnace. Can you now supply the demands of all your customers? Why not handle a complete line—high priced furnaces and low priced furnaces; all cast furnaces, all steel furnaces, and furnaces part cast and part steel; furnaces for soft coal, furnaces for hard coal, and furnaces for wood; furnaces with every modern improvement and convenience? We manufacture

GREEN'S Colonial Furnace
GREEN'S Base Heater Furnace
GREEN'S Low Down Furnace
GREEN'S Steel Plate Furnace
GREEN'S Crescent Furnace
GREEN'S Hawkeye Furnace
GREEN'S Wood Furnace
GREEN'S Steel Dome Furnace

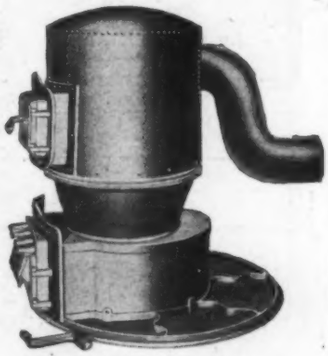
We have a line which will interest you. Our location insures a low freight rate. Our class of workmen insures a high grade article. Our stock of goods insures prompt shipment.



Green's Base Heater Furnace.

Green's Low Down Furnace.

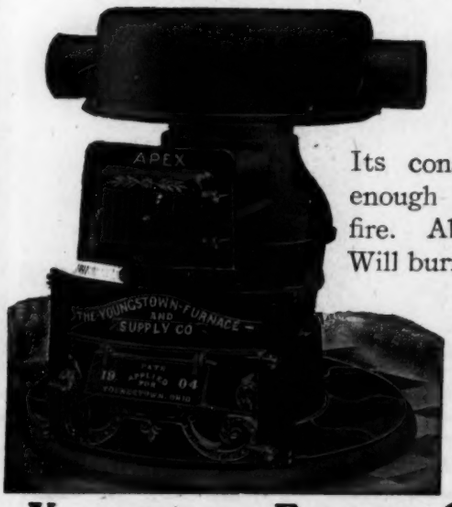
Write for Catalogue and Discounts.



Green's Hawkeye Furnace.

GREEN FOUNDRY & FURNACE WORKS, DEPT. "A" **Des Moines, Ia.**

The APEX Warm Air Furnace



is an extra heavy, durable furnace with a most powerful heating capacity. Its construction is strong enough to resist the fiercest fire. Absolutely gas tight. Will burn hard coal, soft coal or coke. Simple to to operate, economical and thoroughly efficient.

Write Today for Catalogue

Youngstown Furnace & Supply Co.

Chicago Office, 211-213 Lake St. Youngstown, Ohio

Rood & McIntyre, Kansas City, Mo., Southwestern Distributors

Economy, Cleanliness and Durability All Combined in the

Moncrief

Warm Air Furnace

A few of the many good points of the MONCRIEF
- All Cast Iron
- Moncrief Duplex Grate
- Large Radiating Surface
- Top Return Flue
- Double Fire Pot
- Large Grate Surface

HENRY & SCHEIBLE CO.

825-29 Long Avenue, N. W.
CLEVELAND, O.

Western Sales Agent
J. C. KIMMEL, 3314 E. 15th St.
Kansas City, Mo.

We Make It!

The BEST Air Drying Iron Enamel Made.

Try a 1-Dozen Case From Your Jobber

Nickel Plate Stove Polish Co.
CHICAGO.

Large 10 oz. Can.

There's No Time To Lose

The American Artisan

Prize Window Display Competition

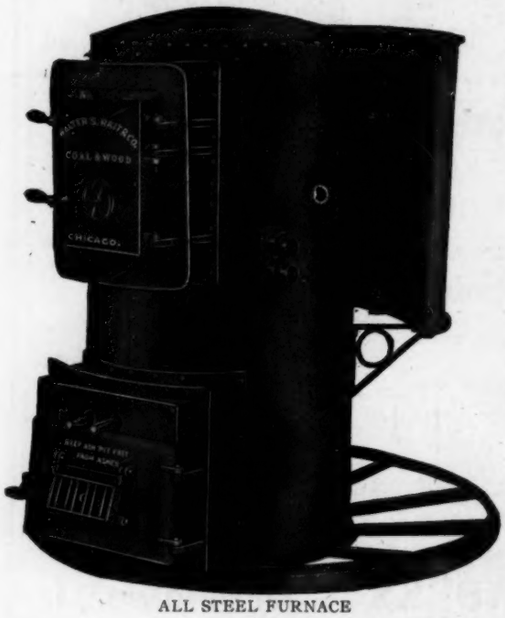
CLOSES

April 1, 1908

IF YOU HAVEN'T ENTERED, DO SO

TO-DAY

A GREAT FUEL SAVER



ALL STEEL FURNACE

Our **Heavy Steel Furnace with Large Double Feed Door** is a furnace of unusual power and of quick heating capacity.

Made of the Best quality of **very heavy boiler plates** with front and back radiator. Absolutely Gas, Smoke and Dust Tight.

Write to-day for printed matter of our complete line.

Walter S. Rait & Co.
211-213 Lake Street
Chicago, Ill.

More Than 10,000 in Use in St. Louis Alone Giving Absolute Satisfaction.

WHEN WE PROVED THAT

The Front Rank Steel Furnace

burns successfully any kind and any grade of fuel—the radiator not choking up—people in St. Louis stopped installing other furnaces and installed the "Front Rank," 10,000 of 'em and they are giving absolute satisfaction to-day.
How about you taking the agency in your town? Good money in it.

The Front Rank Has the Greatest Demand and Brings the Most Money. Write To-day.

Sales Agents for Wisconsin and Northern Peninsula of Michigan
CORDES HEATING & SUPPLY COMPANY, MILWAUKEE, WIS.

HAYNES-LANGENBERG MFG. CO.
4045-4057 FOREST PARK BLVD. ST. LOUIS, MO.

The Hero Furnace

For any kind of Fuel

Showing Smith's Cleanable Water Heater

Cast or Steel Radiator.
Large Double Feed Doors.
Independent Grate Bars.
Everything an up-to-date furnace should have.
Catalog tells all about it, also about our

New Hero Boilers

CHAS. SMITH COMPANY
101 East Lake Street, CHICAGO, ILL.

Gilt Edge Badger Furnace

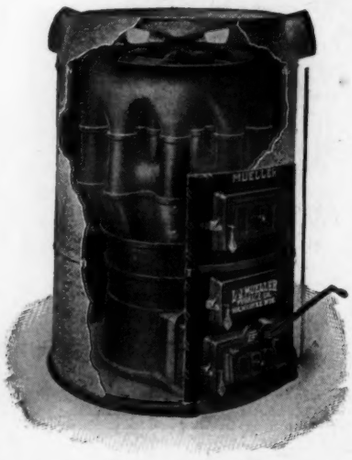
With Steel Plate Radiator

Designed to meet the wants of those desiring a furnace for burning hard coal exclusively.

Combines all the features necessary to make it a most convenient, effectual and economical heater of high grade.

A Good Seller and a satisfactory producer. Made in four numbers.

R. J. SCHWAB & SONS CO., Milwaukee, Wis.
Catalogues on Application



Increase of Profit

can only be had by selling goods that have no competition.

The MUELLER All Cast, Double Radiator Furnace stands in a class of its own—has absolutely no competition as regards Quality, Amount of Direct Heating Surface, Economy and Durability.

To sell the MUELLER means More Sales—Greater Profit.

The Exclusive Agency of the MUELLER will be of value to you. Do You Wish It? If so, WRITE AT ONCE.

L. J. MUELLER FURNACE COMPANY

ESTABLISHED 1857

191 REED STREET MILWAUKEE, WIS.

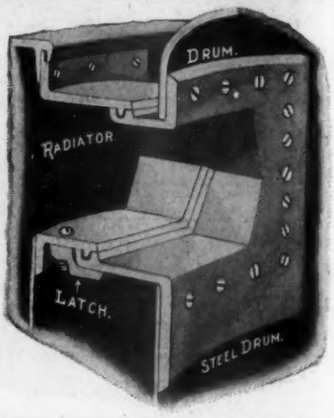
MARVEL HEAT PRODUCERS

BETTER FURNACES

Hot Blast Over and Thru Fire Saves Fuel. Strongest Grate Ever Made.

Fewer Joints and Parts. Many Exclusive Features of Merit.

Catalog for the asking. It shows all points.



Only gas tight joint made on the job.

INTERSTATE MANUFACTURING COMPANY

OSKALOOSA, IOWA

ANY SIZE ANY STYLE

But Only One Quality—THE BEST

THAT IS WHY THE

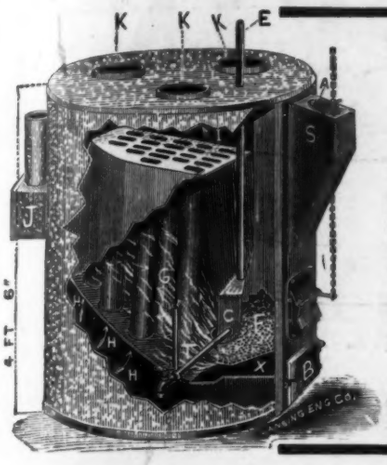
FLORAL CITY FURNACES

have occupied the proud position of leaders in furnace construction for years.

For **durability, economy, power** and **satisfactory service,** this line is without an equal, and as long as quality is considered, it is sure to retain its place at the head.

Write For Our Latest Catalogue.

MONROE FOUNDRY & FURNACE CO., MONROE, MICHIGAN.



The Garner Smokeless Soft Coal Heater

burns soft coal without soot. No smoke nor gas in the house, nor soot in the chimney. The most powerful and economical furnace known. Operates on scientific principles. Made in 3 sizes. Heats with hot air only, or in combination with hot water. Will heat more air with less expense than any other heating device on the market. A magazine feed that gives the steadiest heat. The first one ordered by any responsible dealer may be returned to us in 30 days, if not as represented.

Write for Circulars and Prices. Agents Wanted Everywhere.

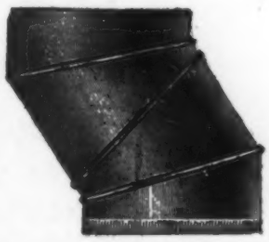
THE GARNER HEATING CO., Lansing, Mich.

The MICHIGAN SAFETY FURNACE PIPE COMPANY

Corner Brooklyn and Abbott Streets,
DETROIT, MICHIGAN.

Manufacturers of A PERFECT HOT AIR FURNACE PIPE, SAFETY WALL PIPE, SINGLE PIPE and FITTINGS in both Tin and Galvanized Iron.

WRITE FOR OUR LATEST CATALOG.



We Make the Only Sectional Furnace Pipe in which the Inner Walls Form the Cross Walls.

No Wings to Pull Out. **No Cleats to Bend.**

All Our Round Pipe and Elbows are Seamed; No Solder is Used in their Construction

We make a wide variety of Pipe and Fittings and having unsurpassed shipping facilities can fill all orders promptly.

We carry a very large stock of

HOT AIR REGISTERS

Asbestos Paper
Asbestos Cement
and everything needed to install furnaces.

F. Meyer & Bro. Co.

PEORIA, ILL.

ESTABLISHED 1866

TIME IS FLYING

Do you realize that only one week and three days are left you in which to enter

THE AMERICAN ARTISAN PRIZE
WINDOW DISPLAY COMPETITION?

It is time you began to appreciate the fact that the opportunity to win part of that

$100.00 IN GOLD

will soon be gone. Don't hesitate, do it now. Place a new display in your window to-day, photograph it and send the photograph to THE AMERICAN ARTISAN. Then you will be entered and will have a chance at those Cash Prizes.

REMEMBER ONLY ONE WEEK AND THREE DAYS MORE

$50.00 $50.00 in Gold for photograph and description of Best Window Display of Hardware.

$25.00 $25.00 in Gold for photograph and description second in excellence.

$15.00 $15.00 in Gold for photograph and description third in excellence.

$10.00 $10.00 in Gold for photograph and description fourth in excellence.

CONTESTANTS—Any hardware dealer, or his assistant or clerk, is eligible to this competition.

TIME—The photographs may be sent by mail or express, charges prepaid, and must reach this office not later than noon, April 1, 1908. Address all photographs to

THE AMERICAN ARTISAN PRIZE COMPETITION
69 DEARBORN STREET, CHICAGO, ILL.

CONDITIONS—Each photograph must be signed by a fictitious name or device, and the same name or device must be put upon a sealed envelope, containing the real name and address of the contestant. This envelope is to be enclosed with the photograph.

AWARD OF PRIZES—The Competition Committee, one of whom will be a practical window trimming man and one a practical hardware man, will pass upon all photographs and descriptions received within the prescribed time and will decide between the contestants.

THE AMERICAN ARTISAN reserves the right to publish all photographs and descriptions of same submitted in this competition.

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

TERMS OF SUBSCRIPTION IN THE UNITED STATES AND ITS POSSESSIONS, (Invariably in advance): ONE YEAR, POSTAGE PAID, $2.00.
IN FOREIGN COUNTRIES INCLUDING CANADA, ONE YEAR, POSTAGE PAID, $4.00.
Address all Letters, Communications, and Remittances to

DANIEL STERN, PUBLISHER AND PROPRIETOR,
69 DEARBORN STREET, CHICAGO, ILL.

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CHICAGO, MARCH 21, 1908.

It is stated on what is considered excellent authority, that an advance in prices of both black and galvanized sheets is contemplated, and that it is expected that this advance will be made prior to the middle of April.

Embarrassment in Sheet Prices.

A PECULIAR situation is present in the sheet metal trade, and because of its not being generally understood the jobbers of sheets in galvanized and black and also manufacturers of guttering, spouting and other items of galvanized and other sheet metal products are placed in an embarrassing position. During the closing months of 1907, because of the lack of confidence then prevalent, prices of galvanized and other sheets in a gradual way were shaded at the mills and elsewhere to an aggregate reduction per ton of about three dollars. The shading process occurred in small concessions covering a period of two or three months. It is stated that these concessions were not wholly open to the general market, but that they were available to good buyers, though scheduled market or card prices remained unchanged, and naturally sheet jobbers and manufacturers of sheet products took advantage of the shadings, and in turn surrendered their benefits to their patrons. Following this, the steel interest rearranged its price list on the sheet commodities herein referred to, and upon January 6 announced a sharp reduction of $4 per ton on galvanized and other sheets. The announcement was a public one, but the $4 cut applied to the established card rate instead of to current prices, which were then substantially $3 per ton under the card in the regular jobbing market. This fact, however, was not generally known or understood, and as a result the jobbing and manufacturing interests in sheets and sheet products were unable to meet expected corresponding reductions, and as a consequence confidence in prices was destroyed.

As a consequence sheet jobbers throughout the country, and particularly in the West, are pressed for prices in accord with a misunderstood condition of affairs and the trade is therefore in a badly demoralized condition at a time when it should be at its best, and much material of the kind indicated is going into the hands of consumers practically at cost. The condition is a very bad one. It conveys a strong argument in favor of net market price statements as accompaniments to card price reductions, announcements by first hands, to the end that ruling prices governed thereby may not be misunderstood, and this, we think, the jobbing and other interests are entitled to.

Why Our Panic.

MANY of the causes to which have been attributed the recent financial troubles and the attendant prevailing lack of confidence are wrong in premise and altogether deficient in logic and nearly all of them may be classed as results of conditions rather than causes. It is not to be supposed that the crisis was brought about by a lack of money or from a defective condition of our banks. Money conditions, however, in the nature of inelastic currency conditions in this country no doubt contributed largely to the general embarrassment but the real cause laid in a disregard of the fixed rule of political economy that capital limits industry. It happened that in the upward rush of our affairs new and old enterprises, speculative and otherwise, calculated far beyond the possibilities of available capital and to an extent that must cause a stop, and readjustment of plans when the point was arrived at where the reserves of capital were found far short of extravagant American demands.

In the matter of labor, as well as in the matter of capital, we have been grossly imprudent in disregarding the natural possibilities of adapting ourselves to what must prove ruinous conditions. Whether we are paying labor more or less than it believes itself entitled to does not enter into the matter. The question is are we paying it more than conditions justify.

It happened at a time when we were at the zenith of a phenomenally prosperous period, and utilizing the available capital to an unusual extent that certain things transpired at Washington that to an extent discredited not only the railways but also many other great industries in the financial markets of the world, and also to a considerable extent antagonized large capitalists, and here a destruction of confidence began that swept like a wave across the country with the usual and anticipated result. We have escaped serious injury, it is true, because of our vitality and wonderful natural resources, but the fact remains that in the depression occasioned by our recent panic we merely paid the penalty of doing business beyond the limit of available capital.

Paint Abuses and Legislation.

IN SEVERAL of the western and northwestern states vigorous action has been taken in the regulation of the sale of mixed paints, and in some instances, notably that of the state of North Dakota, legislative action has been had which forbids the manufacture or sale under any conditions unpenalized of paints that

are not wholly up to state imposed conditions of purity, and the law governing paints also provides that paint packages must always truthfully show by distinct letters and figures upon their labels the nature of the contents by naming the contents and the nature of the ingredients that go to make up the aggregate. Thus the paint trade by this and by other conditions that must be conformed to is safeguarded in a manner intended to wholly forbid the adulteration and the prostitution of ready-mixed paints upon which the welfare, prosperity and well being of the people of North Dakota depends to a great extent. The action has proved a most beneficial one for the people of the state by practically ridding it of the imposition of worthless concoctions under the name of paint and by putting upon a higher and safer plane the worthy articles of this line of industry. The action that has been and is being taken by other states along these lines is largely modeled upon the action of North Dakota, and stringent paint laws along the same lines are to be expected by many states during the year.

Going further and aiming in the direction of laws enacted by the United States government for the prevention of adulteration of food and other things Representative Marshall of North Dakota has introduced in Congress a bill to prevent the manufacture, sale or transportation of adulterated or unlabeled paint, turpentine or linseed oil in the District of Columbia, or in any state or territory of the United States. The penalty clause of the bill provides that upon each conviction the guilty party may be fined not to exceed $500 or be sentenced to one year's imprisonment, or both, and that for each subsequent conviction shall be fined $1,000 or be sentenced to one year's imprisonment, or both. The measure is a comprehensive one, and is aimed at the destruction of a worthless, dishonest feature that has attached itself to a worthy industry.

It is not generally known that the legitimate prepared paint trade in its inception and development had a much harder struggle to gain the recognition that it was by merit and advantages entitled to than has almost any other industry, and this, largely because of the ignorance, selfishness and shortsightedness of those who formerly had to do with painting in the days of its hand mixing and stirring preparation. There arose a prejudice against the new paint, and a united prejudice at that, even in the face of facts, proofs, contentions and actual practice that proved the superiority and economy of the ready-mixed article, and it was only by the strictest honesty in quality, the maintenance of the very highest standards and much strong missionary work that the industry was developed at all, hence it is a serious misfortune to everybody that abuses in the way of the debasement of the commodity should have crept into the industry, and perhaps no one understands and feels this so keenly as the honest makers of paints. But this does not alter the fact that much poor, worthless stuff is sold in the name of paint that is not paint at all, and it is put upon the market in a form and manner that is intended to deceive and defraud, therefore strict measures looking to its elimination from the market are certainly much needed and their success will be hailed with much satisfaction by the makers of and dealers in honest paints.

What does the average dealer in paints know about the goods he buys of this character anyway. Positively nothing, except by reputation; the reputation of the makers and the work done with it under his own observation. It is sealed up in a tight package when he receives it and when he sells it. He is guided wholly by numbers and reputation, and perhaps a patch of color, and in most cases if the article was open for examination he would know no more about it. If he is imposed upon by a smooth salesman and a worthless article in paint it is his misfortune as much as it is anybody's, for his share of the reputation, which is really the sustaining power of the paint trade, is destroyed frequently beyond repair. A serious fault in merchants who buy paints to sell in their stores is the temptation to buy cheap and too cheap. Success in this direction is apt to hurt both ways. Paints bought too low must lack in quality, and if lacking in quality they must fail in the hands of the consumer. The price of good paint is well established, and most everybody who sells it knows it quite well, therefore it is far better to talk and work on and to keep in stock quality and not worry about the competitor who is content to handle the cheapest stuff he can get hold of. Cheap stuff must and always does kill itself, sooner or later.

There is little doubt, however, that some regulating influence is needed in the matter, the paint we pay our good money for, partakes of a mysterious nature that the layman can know little about, and it is to be hoped that the measures on foot in the states and in Congress will eventuate in a manner that will bring about ample protection for painters, paint sellers, paint makers and their money and reputations.

RANDOM NOTES AND SKETCHES.

BY SIDNEY ARNOLD.

A bright post card from Gibraltar with a splendid picture of the famous rock and other things, tells of the writer's intention to be in Italy within two days. It is from my friend A. C. Barler, of the Barler Mfg. Co., Chicago.

* * *

I gave vent to my pleasure at Mr. Barler's good luck and his chance at Sunny Italy, but it didn't make any kind of a hit with his neighbor over on Lake street, who said, "If Barler likes Italy he may have it. No more for mine. No more Sunny Italy for mine. The skies are blue all right, but when you're out doors at this time of the year you toast going and freeze coming. On one side of the street you shrivel with the heat, on the other side you freeze, and in the middle you're handed 90 degrees above on one side and zero on the other. Why, the houses are like cellars, the galleries like tombs and their churches like refrigerators. I played one of the swell cathedrals in Florence on a rather cool day and managed to do a five minute stunt, but I had to pull my fur collar up around my ears and keep moving to do it. The cathedral may be grand all right, but it's also d—— cold

all right, and as I was not out on a polar expedition I wasn't stuck on its temperature."

* * *

"If I ever play it again it'll have to have some kind of a heating apparatus in it, but it will never have one for the registers or pipes or radiators would disfigure the back number effect of the dump and the heat would crack the frescoes or something of the sort. Why, if I had that cathedral over here I'd make a cold storage warehouse of it unless it changed its temperature. Frescoes and aestheticism are all right in Sunny Italy, but between them and furnaces, it's me for this good old United States of America, and why I was ever tempted to leave it for Sunny Italy or any other place across the pond beats me. It's me for here, for our heat, our light and our comfort. Life's a joke here as compared with the best days, the best scenes, the best skies and the best of everything else in Italy or anywhere else abroad. When I find a nation full of people who don't know enough to keep warm I've no use for it. As Eugene Field wrote, "The land of stoves and sunshine is good enough for me."

* * *

My friend W. C. Dickey of the Ward-Dickey Steel Co. of Indiana Harbor, Indiana, is out with another of his periodical trade bracers in the form of another optimistic trade letter which may be considered a literary cocktail. This is it.

"Whether it was a Comet,—Sun Spots,—a Wall Street Water Spout, an Aurora Borealis—or a culmination of causes, that brought about the recent reversal of prosperity, the effect was to send '57 varieties' of shivers creeping down the business spine of the country.

"We are recovering. Don't go short on the United States. An enterprising people in a productive country will pay dividends. We produced over ten billion dollars actual wealth in 1907, which must go to market. Some goes thus: $100,000,000 carried abroad annually by the American tourists and forgotten; $75,000,000 sent home every year by our foreign-born working men; $300,000,000 being expended on foreign soil, to build a canal with no U. S. ships to sail in it; $200,000,000 per year paid to foreign steamship lines to carry our own products to market. Congress seems to think this good policy.

"(Incidentally, we export a few 'American Beauties' at so much per.)

"What other country can match us? Great is America! We can produce the wealth, if we keep busy.

* * *

Some of the experiences of retail hardware merchandizing are peculiar and some of the methods used to change conditions are well worth while knowing. A peculiar case of going right is told me by a Michigan dealer as follows:

"I bought a hardware stock, invoiced at about $4,000, offered by a merchant who had been established in a slow going town for over twenty years. The stock was not in bad shape, and the store was located in the middle of the principal business part. Somehow or other the trade had been going back for some time before I bought the store, and kept going back for about six months after. Then I made up my mind to find out what was the matter, and, if possible, to remedy the trouble. I found out that although I had a good stock of mechanics' tools, stoves and other reliable hardware, that most of my sales were on nails and fence wire and other lines, on which practically no profit could be realized. Then I put in a stock of popular household goods—about $100 worth—placed it in the center of the store, and marked everything in plain figures. Before that my prices had all been in secret characters. The effect of my first ad was really a stunner to me. People who had never been in the store before came in and bought, came again and brought their neighbors along —most of them women, too. When the stove buying season was at hand I got hold of retail mail order catalogues, and had a big circular struck off containing a page of each catalogue, and printed above the two pages this headline: 'No guessing about this, you see the stove you order before you pay, and we save you the freight.' Then I had a couple of cheap stoves put in my window, with cards reading like this: 'This is a mail order stove, you can buy it for the same price here, and we stand the freight.' I got the stove trade that fall, and have had it ever since; and my business has kept growing regularly."

* * *

And the opinion of another retail dealer who has been through the mill and has successfully worked out his own salvation on original lines is quite as interesting. He tells me this as his conclusion, and he worked out along these lines. He said to me:

"All hardwaremen get to the same jumping-off place sooner or later. We tie up too much money and valuable floor and shelf space in stoves and implements and heavy hardware. My advice would be to clear out those slow selling goods, all but, say, a sample or two of each and put the money into quick selling woodenware, brushes, tinware, glassware and notions. Every home uses these articles every day and you'll be surprised what a good average profit they'll pay. I did this very thing two years ago on the suggestion of one of my customers, and it's the best move I ever made."

* * *

At the New York state retail dealers' hardware exhibition at Buffalo, during the recent annual convention, they tell me that a swell white enameled ware exhibit by Fungeman & Smith of Buffalo vanished, as it were, bodily, and it was learned later that a trusty watchman who was hired to watch this particular exhibit stole his job away from himself and that they got him with the goods on him.

* * *

An Indiana hardware dealer getting sore because his customers failed to show with the coin they owed pasted on the front of his building a notice which read: "This sign is for the people who owe me and don't come inside; watch this space—their names will appear." It is said that the notice attracted much attention and comment, but the merchant did not find it necessary to print any names.

News Siftings

Alliance, O., has been chosen by the Notman Stove Company as its place of future location. A plant is said to have been arranged for at that point.

The United States Stove Company has been incorporated with a capitalization of $10,000 to do business at Nashville, Tenn. T. H. Wagner, R. L. Peoples and R. T. Wright are the incorporators.

The Kookizer Co. of Chicago, Ill., has been incorporated with a capital of $10,000. The company's purpose is to manufacture stoves. The incorporators are C. A. Williams, E. S. Rogers, S. S. Reeg.

A post card from Mr. A. C. Barler of the Barler Manufacturing Co. of Chicago, makers of oil stoves, comes from Gibraltar. The pretty card carries a colored photographic view of the great rock and the bay.

The Regan Foundry & Holloware Co. of Bessemer, Ala., has purchased additional property in Bessemer upon which it intends to build a plant for the manufacture of stoves and hollow ware. Mr. W. W. Hollingsworth, president of the Bessemer State Bank, is said to be interested in the enterprise.

The following printed announcement is made by the Born Steel Range Company, of Cleveland, O.: "It is with sorrow that we announce the death of our Mr. Chas. W. Graff, traveling representative, on Saturday March 7.

"The Born Steel Range Company."

A $15,000 factory to be erected on Broadway near Court street in Cincinnati, O., is contemplated by the John Grossius Furnace Company. The change from the present location has been necessitated by the erection of the Gilbert avenue viaduct, which will occupy the premises heretofore held by the company.

The Early Sun Stove Company, which heretofore has been reported as doing business at Newark, O., is, according to information received, now operating a small foundry at Somerton, O., but has in contemplation the building of a plant at Newark. The present product of the company is an original type of gas stove. The company is made up of a group of practical molders.

It is reported that the Molders' Union has in St. Louis, Mo., unconditionally called off its strikes heretofore maintained against the Carondelet Foundry Company, and a number of other manufacturing institutions. Some of these strikes were started over two years ago and the proprietors have been operating uninterruptedly with independent men.

The February issue of the Obermayer Bulletin of Cincinnati, O., is designated the "Technical School Edition." Its contents include good illustrated descriptions of the Lewis Institute at Chicago, the Armour Institute of Technology of Chicago and the Louisville (Ky.) Manual Training High School. These with other interesting matter make up an excellent number.

The Toledo Stove & Range Company, of Toledo, O., is furnishing to its customers a catalogue of stove repairs which includes the various parts that go to make up its complete line of stoves and ranges. These are reproduced in pictorial form in a manner that gives the dealer an opportunity to identify any part he wishes. The illustrations are shown in chart form. It will be found very convenient for the purpose intended.

F. M. Borden & Bro. of Philadelphia, Pa., favor us with a well arranged assortment of trade literature relating to the firm's business. Included in the assortment are an excellent catalogue of "Process" Vapor Stoves. Literature relating to the Summer King Oil Stove and also to the National Steam Cooker "Game, Junior," and Summer Girl Oil Stoves, Reliable Wickless Blue Flame Oil Stove, 1908 Insurance Gasolene Stoves and Ovens, and several other items. The printed matter is of excellent order and is of a timely character.

The Central Association of Stove Manufacturers held its quarterly meeting at Cincinnati, O., on March 17. Twenty-five stove manufacturing concerns were represented in the meeting. The meeting took up the matter of the resolutions, passed at the December, 1907, meeting, which provided for the maintenance of 1907 prices through the year 1908 and by vote reaffirmed the action of December. The meeting was well attended. The Central Association of Stove Manufacturers covers the territory of Ohio, Indiana north of Vincennes, West Virginia and western Pennsylvania.

Graphite for March by the Joseph Dixon Crucible Co., of Jersey City, N. J., and which as we have heretofore stated, is wholly devoted to the Graphite industry, has arrived in its usual bright form. Interesting features of this issue are: A large illustration of an extensive addition to the Jos. Dixon Crucible Company's plant is shown in process of erection and is entitled, "How Dixon Meets Hard Times." The leading articles in the issue are, "Pressure Reducing Valves," by W. H. Wakeman, illustrated; "The First Record of Paper Money," "Double Lipped Crucibles," "Graphite in Gas Ranges," and "Practical Application of Graphite."

The reserve Peninsular Steel Range is made the subject of a pretty folder by the Peninsular Stove Co. It is a very good type of steel range. It is offered with or without an ornamental cast base. It is fitted with either the duplex or flat wood grate and is made in encased reservoir pattern. It has a good fire box arrangement, a large pouch feed, a ventilated oven and is made in all the ordinary steel range combinations. The cast iron detail work of the range is thoroughly tasteful and good nickel treatment is shown on the oven door framing and center panel and the top and bottom bordering and panel of the high warming closet. The range is a popular one.

NICKEL PLATE.

The Nickel Plate Stove Polish Co., of Chicago, offers a superior order of stove polish both in goods designed for shelf hardware and in the more bulky goods that are designed for the use of stove dealers. The company has always been a very successful one and its various types of goods have always been in

active demand for the reason that in operation they bring about the best of results and are satisfactory to patrons. In addition to stove polish the company makes what is known as "Peerless Iron Enamel," a brilliant jet black enamel that is brilliant in its self drying quality without the aid of baking. It is hard and durable and altogether practical, although merely applied with a brush, and it is said to be the best air-drying enamel made. It is put up in convenient cans nicely labeled. Throughout their entire line the company appeals strongly to retail hardware dealers and it is prepared at all times to make known to the trade the advantages it has to offer in the qualities and prices of its goods and of their standard excellence as compared with other makes. Some good trade literature may be had upon application. In writing kindly mention THE AMERICAN ARTISAN.

THE GAME DAMPER.

This, as shown by the illustration, is a simple, reliable and effective damper for stove pipe regulation. It is of the thin cast iron type that is certain to retain its shape and dimensions. It is provided with a separate aperture which prevents the instant checking of draft, hence it prevents the back movement of smoke or heat products and regulates the flow of the same upwards with a nicety that makes the damper as a whole a pronounced success. It is of the friction holding design in which pipe punctures each side retains the sustaining rod and the spring upon the handle keeps the device exactly in the position in which it has been placed by the operator. Thus the outflow is regulated constantly according to the exact needs of the user. This is but one of the specialties offered by the company which manufactures a very extensive line in which are included builders' hardware, dampers, damper clips, oil and gas stoves, furnace lamps, molasses gates, letter boxes and a variety of other articles. Catalogues and prices may be had upon application to the Taylor & Boggis Foundry Co., of Cleveland, O. In writing kindly mention THE AMERICAN ARTISAN.

Game Damper.

THE PEORIA LEXINGTON.

The Culter & Proctor Stove Co., of Hamilton and Water streets, Peoria, Ill., has been having remarkable success with its Peoria Lexington Steel Range. The Peoria Lexington line is made in all of the ordinary steel range combinations, namely, in the square, the square and reservoir, square and high shelf, square and high shelf and reservoir, the square and end shelf, the square and end shelf and warming closet, the completed equipment and other forms. In the production of the Peoria Lexington Steel Ranges it is claimed that only the most skillful workmen are employed and that no expense or pains are overlooked in the endeavor to keep the range up to the highest standard of excellence in all particulars. The range is built of heavy polished steel with double walls interlined with asbestos, the walls being hand riveted throughout at two-inch intervals with what are known as steeple-head rivets. In the arrangement of the oven door the hinge is put on with square head machine bolts and the weight of the door is provided for in a strong rigid cast iron plate that is built into the structure and supported by square head machine bolts in a manner that absolutely forbids its breaking away or getting loose in any manner. The range has a double flue bottom which insures extra quick baking and which holds the heat in the oven perfectly. The top of the oven is covered with a blanket of asbestos and the utmost care has been given to the general construction. The range is built upon liberal lines with large oven, large fire box, large ash pit and a good big liberal cooking surface. It is a six-hole range with duplex grate arrangement that can be reversed for wood burning and it carries a large bailed ash pan, the reservoir section is in cast encased forms and carries a cast enameled reservoir in large proportions. The range is replete with modern equipments and in its ornamentation it excels in nickel adornment which is shown in splendidly designed doors, panels, tea shelves, door framing and the plain strip framing of the high back, high shelf and high warming closet arrangement. The Peoria Lexington is but a single feature of the company's line. Complete catalogues may be had upon application by addressing the company as herein indicated. In writing kindly mention THE AMERICAN ARTISAN.

APPRECIATES.

Under date of March 9, 1908, Mr. J. H. Banks, of Fremont, Nebraska, writes as follows:

"To THE AMERICAN ARTISAN:

"I wish to thank you for your prompt attention you gave to my inquiry, have already received quotations from both parties. I also noted in the query column address of the Aluminum Co. of America, as I was desirous of knowing where that metal could be obtained. Am glad to say that I am already a subscriber to the ARTISAN, in which I find many articles of interest and value to an active business man, as well as an encyclopedia of information."

WORLD'S OUTPUT OF IRON ORE.

The preliminary figures so far available to the British Board of Trade are contained in a return issued the latter part of November. It is estimated that the world's output of iron ore in 1906 was about 125,000,000 tons, the principal producers being the United States, Germany, the United Kingdom and Spain, in the order given, these countries accounting for about 78 per cent of the total output. The figures show that in the United States there was an output of 7,000,000 tons more than in 1905, the total being rather under 50,000,000 tons. In Germany there was an increase of over 3,000,000 tons, and in the United Kingdom and Spain of 1,000,000 tons each.

There was a further large increase in the production of steel in the United States, while the production of Germany increased by about 1,000,000 tons, and that of the United Kingdom by about 650,000 tons.

The Hardware Record.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 32 to 37 inclusive.

The Alabama Retail Hardware Association will hold its annual meeting at Montgomery, Ala., on May 23.

The Northwestern Barb Wire company of Rock Falls, Ill., reports a heavy business at the present time and advises that the plant is running over time steadily to meet the requirements of customers.

The Pittsburg Automatic Vise & Tool Co., of Pittsburgh, Pa., reports that it has just been awarded the contract for complete finishing equipment of vises for the new Schoen Steel Wheel Company's plant at Newlay, Yorkshire, England.

The stockholders of the Scott-Voelker Hardware Co., of Albany, N. Y., at a meeting held on March 2 elected as directors for the ensuing year, Chas. Voelker, A. J. Scott and Frank Guilfoyle, and as inspectors of election Frank Keliher and Martin Weldon.

At a recent meeting of the stockholders of the Crandell Cutlery Co. at Bradford, Pa., the following officers were elected: H. E. Crandall, president and general manager; R. B. Stone, vice-president; L. Newell, secretary, and Geo. H. Mills, treasurer.

At a recent meeting of the Stover Mfg. Co., of Freeport, Ill., the election of officers was held. Willard A. Hance was elected President, P. S. Stover, Vice President; Lewis Hughes, Secretary, and Oscar J. Ziegler, Superintendent. President Hance has been interested with the company for nearly thirty years.

Representative business men of Mt. Pleasant, Ia., are endeavoring to secure the location at Mt. Pleasant of an eastern cutlery manufacturing company that employs 100 men. The Commercial Association of Mt. Pleasant is using its influence in the direction indicated and it is stated with some confidence that the arrangement will be perfected.

Mr. Jas. Mandelbaum of the Fones Bros. Hardware Co., of Little Rock, Ark., writes to advise us that under arrangements that are now definitely determined, the dates to be covered by the annual convention of the Southern Hardware Jobbers' Association at Hot Springs, Ark., are June 9-10-11 and 12, 1908. We are advised that these dates may be depended upon.

It is stated that Geo. Jester, a prominent retail hardware merchant of Taylorville, Ill., was adjudged insane and committed to the Central Hospital for the Insane at Jacksonville, Ill., according to an item in the Springfield State Register of February 29. It is stated that Jester was stricken with paralysis about two weeks earlier and that the later misfortune here reported is due thereto.

Kelley, Maus & Co., wholesale heavy hardware dealers of Chicago, whom we recently reported as having bought the stock and business of the Rockford (Ill.) Wholesale Hardware Co., is reported to have moved practically the entire stock to its Chicago establishment. It is stated that the salesmen of the Rockford Wholesale Hardware Company have been practically all dismissed and in Rockford it is stated that the business is to be abandoned.

The DeHaven Hardware Co. has been incorporated to conduct a wholesale hardware business at Norfolk, Va., with a capital of $200,000. Mr. Hugh DeHaven was in Norfolk recently in connection with the company's affairs. He is president of the DeHaven Mfg. Co., of Brooklyn, N. Y., and is also interested in several southern enterprises. Mr. Hugh DeHaven is president of the new company. Mr. D. E. Allen is first vice president, and the directors are Hugh DeHaven, Geo. W. Murray, D. E. Allen, L. B. and Geo. Dawson. The company will do a wholesale hardware and trading business.

A hanger sheet issued by the White Lily Mfg. Company, of Davenport, Ia., is a display of an even dozen specimen advertisements of the White Washer made by the company. These are very attractive ads of different designs and with different pictorial features. They all apply to the same washing machine, however. Each of them is 2½ inches single column and all of them are thoroughly good. They are of the kind of advertisements that are furnished to retail merchants free of charge to aid them in conducting their local advertising campaigns along the line of washing machines. Copies of the hanger sheet may be had upon application to the company as above indicated.

Wheeling Dripping Pans are made the subject of a pink leaflet of envelope size that is being distributed by the Wheeling Corrugating Company of Wheeling, W. Va., and in connection with the leaflet occasion is taken to illustrate and call attention to the "Crescent Roaster-Baker" which is also made by the same company. These goods are put up in the most substantial manner and by the best workmen and best machines that the company has been able to provide for the purpose. The Roaster-Baker is made in three sizes from special blued, smooth steel sheets and with improved features and advantages that make it very attractive and desirable for hardware store selling The crating sizes and directions of Wheeling Dripping Pans and the prices that apply to them are quoted in connection with the leaflet

STOCKHOLDERS MEET.

The annual meeting of the stockholders of the Reading Hardware Company, of Reading, Pa., was held recently and the following directors were chosen: William M. Griscom, Matthan Harbster, Isaac G. Treat, S. Y. Riegner, G. N. Jacobi, John G. Mohn, George Harbster, John E. Harbster, and John Harbster, Jr. The membership of the board was cut from 10 to 9, owing to the retirement of A. A. Gery, George Harbster succeeds William H. Mohn.

The board organized by the election of these officers: President, Matthan Harbster; vice president, William M. Griscom; secretary, J. Milton Miller;

treasurer, S. Y. Riegner; general manager, John E. Harbster. The latter succeeds Granville Wright, who came to the company a year ago from Connecticut.

$100.00 FOR HARDWARE WINDOWS.

THE AMERICAN ARTISAN'S $100 Hardware Window Display Contest will close on the first day of April, 1908, at noon, therefore there remains but a few days time in which to prepare entries by photograph and to get them filed in a proper manner. This is the last time this announcement will be published. We trust that our readers who contemplate making entries by photograph will make haste and get their entries in without delay.

Following will be found the full explanation of the conditions relating to the contest herein referred to:

A list of the prizes to be awarded by THE AMERICAN ARTISAN and the conditions governing its hardware window dressing contest is as follows:

The Prizes.

The prizes will be awarded as follows:

First Prize, $50 in gold for the best photograph and description received of a window display of hardware.

Second Prize, $25 in gold for the photograph and description second in excellence.

Third Prize, $15 in gold for the photograph and description third in excellence.

Fourth Prize, $10 in gold for the photograph and description fourth in excellence.

The Conditions.

The conditions of the competition are as follows:

The photographs may be sent by mail or express, charges prepaid, and must reach this office not later than noon, on April 1, 1908. Address all photographs to THE AMERICAN ARTISAN Prize Competition, 69 Dearborn street, Chicago, Illinois.

Each photograph and description must be signed by a fictitious name or device and the same name and device must be put upon a sealed envelope containing the real name and address of the contestant. This sealed envelope is to be enclosed with the photograph.

Award of Prizes.

A competition committee of three will be appointed, one of whom will be an expert window dresser and one an experienced hardware man. This committee will pass upon the merits of all photographs and descriptions received, without knowing the names or addresses of the senders, and will decide the winners of the contest.

THE AMERICAN ARTISAN reserves the right to publish all photographs and descriptions submitted in this competition.

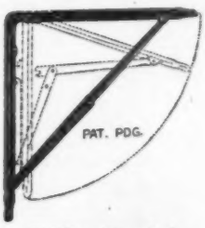
HANDY TOOLS.

Among the small tools made for the uses of carpenters and others there are few items that are as interesting and as convenient as the Automatic Screw Driver by which the usual screw forcing operation is accomplished by merely pushing upon the handle of the instrument. The device is so ingenious and practical and its saving of labor and time is so great as to awaken a distinct interest in its behalf. A thoroughly good instrument of this kind is offered by the Goodell-Pratt Company, of Greenfield, Mass., and we take occasion to refer to this instrument because of its attractiveness along the lines stated although it is but a small item of the goods the company has to offer. An automatic drill by them operates in the same manner and is of the same general character. They are also offering hand drills, bench drills, hand vises, calipers, nail sets, hack saws and in fact all kinds of tools of the very highest types of excellence. Their excellent pocket catalogue is furnished free of charge, and dealers who are in a position to carry the company's line, will upon inquiry be given the details of a special proposition by the company in which there is money for the dealer. In writing for either this proposition or for the catalogue address the company as herein indicated and kindly mention THE AMERICAN ARTISAN.

Automatic Screw Driver.

A PRACTICAL FOLDING BRACKET.

The Griffin Mfg. Co., of Erie, Pa., offers a practical folding bracket, an illustration of which is shown in connection herewith. The advantages of a good, firm, strong bracket that can be folded up so as to occupy little space and to be not too expensive will be thoroughly appreciated by everybody, for a fixed bracket is known to be one of the clumsiest and most unyielding items in a hardware stock. It is always apt to take up more shelf or storeroom than it should and the conditions that make it unyielding and bulky, largely increase its shipping cost and the cost of its boxing. For this reason the folding bracket should find appreciation and ready sale at once. The folding bracket is but one of the items offered by the company as it manufactures a line of very excellent hardware specialties, among which are barn door hangers, door bolts, ornamental high-grade hinges, strap and T hinges, etc. A catalogue relating to all of the company's products may be had upon application to the company as above indicated. In writing kindly mention THE AMERICAN ARTISAN.



Folding Bracket.

IN THE FAR NORTHWEST.

W. W. Evenson, Secretary of the Inland Empire Retail Hardware and Implement Dealers' Association, authorizes the statement that there are substantial increases in all lines of the hardware and implement trade in the far northwestern district, where the sales of farm implements and machinery amounted to more than $1,250,000 in 1907, and, he adds, there is no apparent obstacle in the way of

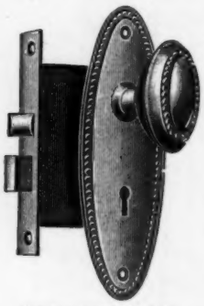
making 1908 a record year. Thousands of settlers have come into the country in the last ten months and the acreage of the district, particularly in eastern and central Washington, has been largely increased. He said:

"Advices from officials of transcontinental railroads, operating into the northwest, indicate that the influx of homeseekers to the Spokane country will be larger this year than ever before. These people have some capital and their first attention after obtaining land, whether five acres or a quarter section, will be to bring it under cultivation. This means sales, not only of implements, but also hardware, vehicles and supplies, as well as building materials. The outlook was never more encouraging."

The fact that the Spokane country is yet in a constructive period, to a large extent, indicates the field that is offered to men with small or large capital. Building operations in the city of Spokane aggregated $5,778,876 in 1907, a gain of $2,077,457 over 1906, making it rank second with the cities in the United States, while the value of real estate transfers amounted to $19,827,513, an increase of $5,234,294 over 1906, and it is believed this will continue throughout 1908.

ORNAMENTAL LOCK.

The illustration herewith is of an ornamental pattern of door lock that is being offered by the Taylor & Boggis Foundry Co., of Cleveland, O. This company while it manufactures a large assortment of hardware specialties, is also engaged in the production of superior Builders' Hardware and the item shown is but one of a very large assortment which it is prepared to offer. The Builders' Hardware specialties produced by the company have come into the market for extended use. There are features about the goods of this order that claim the attention of practical builders quite generally and as a result the company has through its products grown into the calculation of builders all over the country. The lock here presented is of a superior order in its arrangement and operation. It is simple in the extreme, it works promptly and reliably and one of its most satisfactory features is in the fact that there is really nothing about it that is complicated and therefore it is not at all liable to get out of order under any conditions. Illustrated literature relating to the company's product together with prices thereof are available upon application. In writing kindly mention THE AMERICAN ARTISAN.



Ornamental Lock.

NEW PATTERNS OF "YANKEE" TOOLS.

North Brothers Manufacturing Co., of Philadelphia, Pa., is headquarters for a large number of distinctly important hardware specialties, prominent among which is its varied and interesting line of "Yankee" tools, which run to ingeniously devised automatic and other screw drivers, drills and boring devices, of what are known as the "ratchet" class, and other equally ingenious patterns. The company at this time is putting upon the market a series of new ratchet tools in the form of screw drivers, screw eye drivers and other new and distinct types. In the series of illustrations herewith are shown, reading from left to right, the new type of "Yankee" ratchet screw driver with the screw holder attachment, and next to it. In the second illustration, reading the

Some of the New "Yankee" Tools.

same way, is shown the separated bit of the same instrument with screw holder holding the screw. In the third illustration, reading the same way, is a bit of the same character fitted with an automatic device for holding and driving screw eyes. In the fourth illustration, also reading from left to right, is what is known as the "Yankee" magazine ratchet screw driver, with three separate types of drivers. In the fifth illustration, or the final one, at the right, is shown the ratchet screw eye driver in its complete and perfected form. As applying to the first illustration, the "Yankee" ratchet screw driver, the screw holder, is a simple and ingenious attachment designed to hold the screw in position. It offers peculiar advantages for placing screws in difficult positions and has many other conveniences. The attachment consists of two jaws, fastened to a head at one end, a ring to limit the spread of jaws at the other end and a spring to operate the jaws. A movement of the head separates the jaws, which close upon the screw when the head is released. When the screw is ratcheted into place the clamp releases automatically and the screw holding attachment is out of action until again placed for use. The next two illustrations apply as attachments in form of bits for the screw holder and screw eye holder respectively. In the magazine ratchet screw driver the special feature is in the easily removable and interchangeable blades, for the holding of which a magazine is provided in the hollow handle. The four blades shown are of types suitable for different sizes of screws. The device it will be seen is of a uni-

versal, interchangeable character. The illustration demonstrates very clearly the purpose and operation of the device. In the "Yankee" ratchet screw eye driver, there is shown an instrument which should find a very active demand. An ingenious arrangement adapted therefor holds the screw eye into perfect position rigidly, and the operation of the ratchet forces it into place wherever it is intended to be set. The addition of this new line to that of the "Yankee" tool line, for which the company has heretofore been headquarters, will increase the assortment of "Yankee" tools to large proportions and will afford the trade even better opportunities for selection than have heretofore been enjoyed.

Some excellent explanatory literature relating to these goods may be had from the company upon application as herein indicated. In writing them, kindly mention THE AMERICAN ARTISAN.

THE SCOOP FLUE STOPPER.

The Scoop Flue Stopper, a good illustration of which is herewith shown, is one of the highly practicable devices that is being presented to the stove and hardware trade at the present time. The device requires but little explanation for the reason that the illustration so thoroughly indicates the nature of its manufacture and the purpose for which it is intended. It will be noticed that the stopper has a top curved spring which holds it in position as relates to an upper bearing. The wide semi-circular strip at the bottom is intended to serve the purpose of a scoop and holder by which soot, ashes and other chimney accumulations may be removed. This strip, also through its formation, serves as a good strong spring to hold the stopper into position at the sides and the bottom of the flue opening.

Scoop Flue Stopper.

J. H. Kinley of Upper Sandusky, O., is the patentee and sole manufacturer. Illustrated literature may be had upon application together with prices. In writing kindly mention THE AMERICAN ARTISAN.

ECLIPSE BATTER MIXER.

The illustration herewith is of the Eclipse Batter Mixer, manufactured by the National Machine & Stamping Co., of Detroit, Mich. Its uses are for whipping cream, beating eggs, beating griddle cake batter and other like uses. It is a very simple affair that cannot in any way get out of order nor is there anything complicated in its operation. One simply needs to put the ingredients into the machine and turn the handle a few times and the mixing or whipping has all been accomplished. Then by a pressure of the thumb lever the contents will flow out in such quantity as is desired. It is a portable, handled machine, and will be found useful and very convenient for the purposes indicated under all conditions. This is one of a number of household specialties that are very attractive ones, made by the company. It will be found a very salable item in retail hardware stores and it returns a good profit to the dealer. Trade literature relating to this and other specialties may be had by addressing the company as above indicated. In writing kindly mention THE AMERICAN ARTISAN.

Better Mixer.

RETAIL HARDWARE DOINGS.

NEW FIRMS AND INCORPORATIONS.

Newport News, Va.—The Paul Hahn Specialty Co., incorporated with a capital stock of from $5,000 to $10,000.

Sullivan, Ind.—Scott Hardware Company, incorporated with a capital stock of $22,000.

Nashville, Tenn.—Humboldt Hardware Co., incorporated with a capital stock of $4,000.

Moffit, N. D.—Fred W. Hinsey has opened a hardware store.

Wyoming, Ill.—E. A. Fouts is opening a new hardware store.

La Harpe, Kans.—T. B. Shannon has opened a new hardware and implement business.

Moro, Ore.—Moro Hardware & Implement Co. has been incorporated with a capital stock of $20,000.

BUSINESS CHANGES.

Crete, Ill.—Henry W. Diersen has bought his brother's interest in the Diersen Hardware Company.

Winchester, Ind.—Chas. E. Magee has purchased the H. F. Hobbick interest in the Hobbick & Magee store. The new firm will be known as Magee & Son.

Essex Junction, Vt.—W. S. Teachout has sold his hardware stock to Elbert Keith.

Shelbina, Mo.—H. F. Heninger has purchased a half interest in the hardware store of F. M. Grout.

Pauls Valley, Okla.—The Duffy-Burns Company of Albany, Texas, has purchased the business of the Washita Hardware Co., and will soon begin the erection of a new building where they will carry a large stock of hardware.

Ashtabula, O.—Henry B. Smith has purchased the tin shop, tools, etc., of Wm. Van Tassel on Garden Court.

Urbana, Ill.—J. C. Thomas, owner of the W. W. Lindley hardware store has purchased the hardware store of Fred Chenoweth.

Canton, Mo.—J. W. Ray & Son have sold their stock of hardware, stoves and tinware to R. N. Marks.

MISCELLANEOUS.

Fremont, Nebr.—Frank Gladowski is contemplating entering the hardware business.

Grand Forks, N. D.—Isaac Larson has resigned his position in the hardware department of the Arneson Mercantile Co., and will engage in the hardware business at Crookston about April 1.

Goodland, Kas.—The J. W. Beck Hardware Store was damaged by fire recently.

Blanchard, Ia.—The Dewhurst & Boyles Hardware Store was damaged during an electrical storm.

Millersburg, Ind.—Geo. W. Gilbert has closed out his hardware stock and left for Milford.

Wausau, Wis.—The hardware store of Wm. Kuckuk was burglarized.

Palouse, Wash.—Wm. Conrad is building a new store for his stove and hardware business.

Edmonds, Wash.—Mr. Heberline has moved his stock of hardware into a new building.

With many lines you avoid the dangers of dull seasons—when one of the many lines is not selling, another is.

Advertising Department

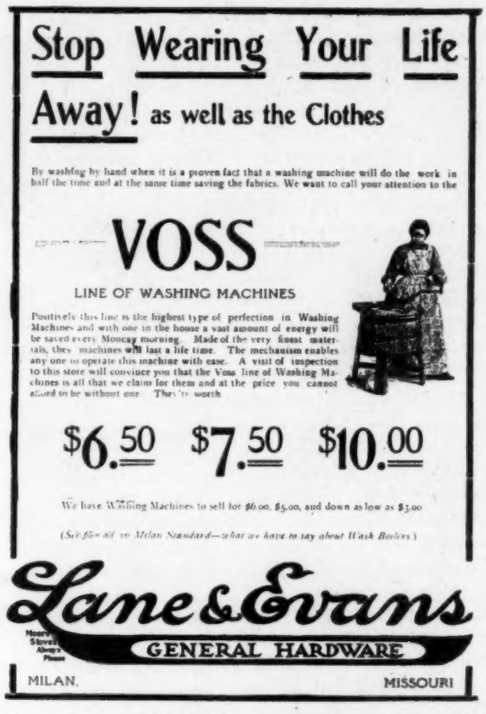
Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

Some interesting examples of local advertising are reproduced herewith. It will be found advantageous to study the advertisements that are published in this department from week to week as they offer probably the best judgment in advertising matters that is possessed by many different hardware merchants variously situated and of various degrees of advertising experience. In connection our own comments will be found to at least call attention to some of the peculiarities of the advertisements and to in some cases criticize the manner in which the advertisements have been prepared.

It should be understood that this department of THE AMERICAN ARTISAN is at all times prepared to answer questions relating to advertising matters that may be submitted to it by subscribers or others connected with the hardware trade.

* * *

Lane & Evans of Milan, Mo., in their advertisement herewith shown makes a leader of washing machines among which the "Voss" Washing Machine is made distinctly prominent. The washing machine talk as shown is very good, and it ought to sell machines. The line of display pricings is strong and attractive. The arrangement of the advertisement



would have been better if not so much split up in its vertical form by dividing white space. The type selections are altogether satisfactory both in the display and in the body. The proofreading is not good, a notable error being apparent in the spelling of the word "Monday" in the ninth line. A better arrangement for this advertisement would have been to have used seven inches four columns wide instead of the 9½ inches three columns wide, both being practically the same amount of space. This would have permitted the closing up to more reasonable proportions of some of the gaps and it would have allowed for using the "Lane & Evans" electrotyped line at the bottom without breaking the enclosing rule and would also have allowed for a good strong line where the word "Voss" appears, reading "Voss Washing Machines" in large type such as is used. The advertisement, however, as it stands is a worthy one. It occupied 9½ inches three columns wide in the *Milan Republican* of Milan, Mo.

* * *

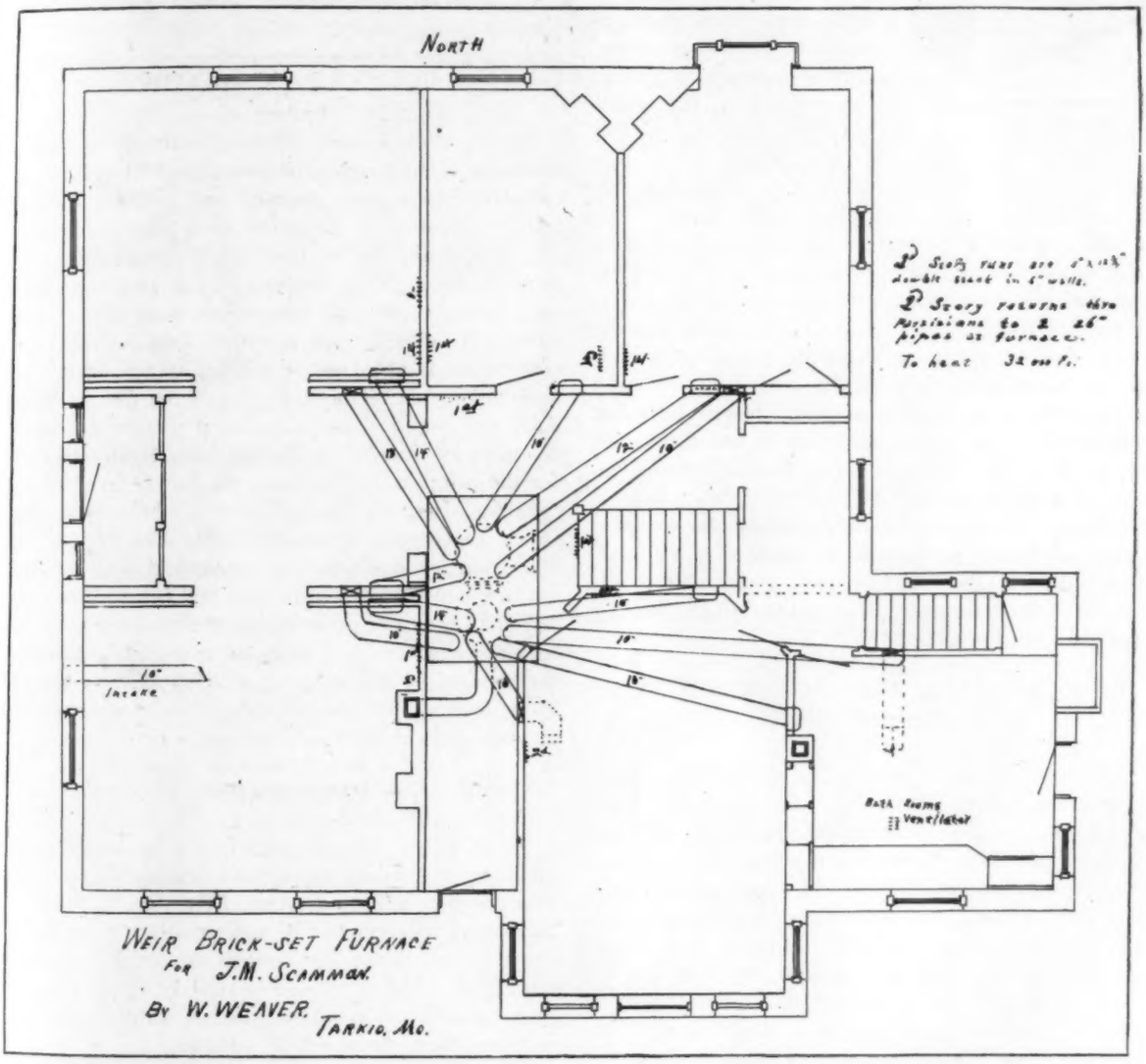
F. R. Washburn, hardware merchant of Taunton, Mass., presents a well planned advertisement relating to "Troy Corn Poppers," "Rival Outfits for Mending Boots and Shoes" and "Standard Cobbler Outfits." The articles sell for 25c, 75c, and $1.38, respectively. These three items are given different treatment in the advertisement. The corn popper section tells a good story about itself that should induce sales for it, and the price of it is made more prominent than anything else in the ad. In the rival mending outfit, no story at all is told except that the price is 75c, and in the case of the standard cobbler outfit nothing but the contents of the outfit are mentioned. The inference then as deduced from the showing made is that Mr. Washburn thinks very well of the "Popper" and is anxious to have people see it and buy it, and that he cares less about the other two items. The arrangement of the advertisement is thoroughly good. The type selections are satisfactory and consistent and the general layout with the white space inside the enclosing border is very good. This advertisement occupied six inches double column in the *Taunton Daily Gazette* of Taunton, Mass.

Heating and Ventilating

HEATING PLANT FOR LARGE MODERN RESIDENCE.

BY W. WEAVER, TARKIO, MO.

The drawing herewith submitted shows the locations of the furnace and the warm air pipes in the basement and in the partitions of rooms on the first floor. The house and the furnace walls are of cement blocks. The furnace is in this case crowded out of the center by the stairway and for that reason the eastward runs of piping are necessarily longer than is desirable. The north and west rooms are somewhat favored by larger pipes and registers. All of the registers and the grates in the equipment are in the base boards. They are in oxydized copper finish. In the heating plant every room has for itself a separate warm air run and each of them with the exception of the kitchen and the bath room is provided with a separate cold air return to the basement where all of them are conducted to the furnace with outside intakes by one of 24 inches and one of 28 inches in galvanized pipe. This is practically equal to the capacity of the hot air pipes. All of the tin work with the exception of the double wall stack is in IX. The pipes are covered with asbestos. The woodwork of the house in all cases where it is touched by boots or register boxes on the first floor are protected by triple air cell asbestos.



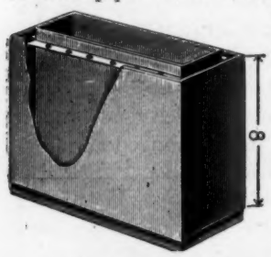
THE MONARCH AIR BLAST.

The Monarch Air Blast Warm Air Furnace by the Forest City Foundry & Mfg. Co., of Cleveland, O., has become recognized in the trade as one of the standards for efficient and satisfactory soft coal burning. Its peculiar construction, in which a hollow air belt at the top of its fire pot is so arranged as to admit many small currents of superheated air at the top fire line in the combustion chamber, provides an altogether successful means for utilizing the coal gases by throwing them into flame instead of discharging them unburned through the exit flue which has proved thoroughly successful and has brought the furnace into distinct favor. In its construction the Monarch Air Blast Furnace is provided with a vast amount of radiating surface both in its body construction and in its very large return flue radiator. It is built in heavy cast iron construction and possesses the enduring qualities that are so necessary and so desirable in a

furnace of this character. Very excellent illustration and full descriptive matter may be had upon application by addressing the company as above indicated. In writing kindly mention THE AMERICAN ARTISAN.

MICHIGAN SAFETY FURNACE PIPE.

The illustration herewith is of a cut-away section of wall pipe which shows the manner in which the safety feature of the piping is brought about by doubling the structure and leaving an intervening air space between the two plates which are held exactly and into separated position by frequent perforated partitions which not only keep the sheets rigidly in place and prevent their buckling or distortion in any manner, but which also permit a current of air to circulate continuously between the outer and inner plates at all times. This is said to provide the stiffest and best machine made pipe in the market. It will be noted in this illustration that the constructions of the sections is such as to provide for a secure fitting of the several sections in the making up of stacks as the provision is made for the inner walls forming the cross wall. Thus it is claimed that a continuous inner pipe is provided. The furnace pipe equipment to which the illustration applies is by the Michigan Safety Furnace Pipe Company, corner Brooklyn & Abbott streets, Detroit, Michigan. A very good catalogue by the company relates to interesting matters in connection with furnace pipe. It may be had upon application to the address here indicated. In writing kindly mention THE AMERICAN ARTISAN.



Section of Safety Pipe.

L. J. MUELLER FURNACE COMPANY'S REGISTERS.

The L. J. Mueller Furnace Co., of 191 Reed street, Milwaukee, Wis., is offering semi-steel floor registers in all sizes and in all finishes that apply to goods of this kind. It is claimed for them that they are neat in design, thoroughly strong and enduring and properly light in weight to make them thoroughly attractive. It is represented for the Mueller Wall Register, both in steel and in cast iron that they are the simplest of and the most durable registers both in wearing qualities and in operation, and that there are no parts about them that are at all liable to get out of order. The Mueller Company invites particular attention to some very light open steel wall registers that it is offering at the present time which are shown in considerable variety in the company's catalogue and their trade literature which will be sent upon application. In writing for these items kindly mention THE AMERICAN ARTISAN.

STANDARD REGISTERS.

The Standard Register Co., Cleveland, O., which takes occasion to state that it is "not in the register association," offers a line of all cast warm air registers that are neat in design, superior in finish and are made interchangeable with all first class makes of registers and of an order of durability that will wear a lifetime. The company states that it is the largest makers of registers in the country. It has its own foundry with a capacity which it states of 200 molders. In this connection it asks the trade to get the association's discounts and compare them with those of the Standard Register Co. The company carries in stock at all times a complete assortment of all of its varieties of registers and is prepared to make shipments promptly. A very good register catalogue may be had from the company and price list also upon application. In writing kindly mention THE AMERICAN ARTISAN.

GREEN'S BASE HEATER.

Green's Base Heater Furnace is an all steel construction of thoroughly modern type. It is built in cylindrical form in a manner that provides for the complete heating of the entire steel body of the furnace proper and for the further utilization of the heat products through the medium of the very large rear steel radiator and pipe connections even beyond that point. It is built upon scientific lines in which the combustion is aided and perfected by hot blast ring perforations above the fire pot and the fire pot itself is of the slotted combustion-aiding pattern and these elements as situated in Green's Base Heater provide for the complete utilization of the fuel in live heating elements. Green's Base Heater is offered by the Green Foundry & Furnace Works, Des Moines, Ia. The company has been very successful with its steel furnace construction work and the furnace here referred to promises great things in the direction of the company's success. Catalogue and good illustrated matter may be had upon application to the company by addressing as here indicated. In writing kindly mention THE AMERICAN ARTISAN.

PARAGRAPHS.

W. B. Potts, who for many years has conducted a plumbing machinery supply and heating supply business at 3d and Spring street, Columbus, O., notifies us that he has removed to new premises at 80 South Front street, where he occupies an entire four-story new brick building, which is entirely devoted to his own business. The steam and hot water fittings department have been greatly enlarged.

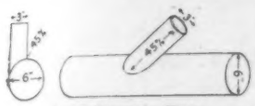
A good circular by the Royal Stove & Register Co. of 109 East Fort street, Detroit, Mich., relates to Royal O. K. First Floor and Gem Second Floor Side Wall Warm Air Registers. These goods are nicely illustrated in the circular by photo half tone illustrations and good descriptive matter and prices are made a part of the printed matter. In addition to the register assortmen the company also manufactures steel ranges and hot water heaters.

People like to trade with a man who knows his merchandise.

Tinshop

CYLINDERS INTERSECTING IRREGULARLY.

Mr. Martin Foeste, of Paris, Texas, in a recent communication asked for the submission of the problem involved in the accompanying drawing to the sheet metal workers, who read THE AMERICAN ARTISAN. In connection with a request that some of the readers would furnish a pattern development for the same. Several replies have been received and published. In this issue we have the pleasure of presenting a development of the pattern by Mr. Olaf Ulen of Viroqua, Wisconsin.



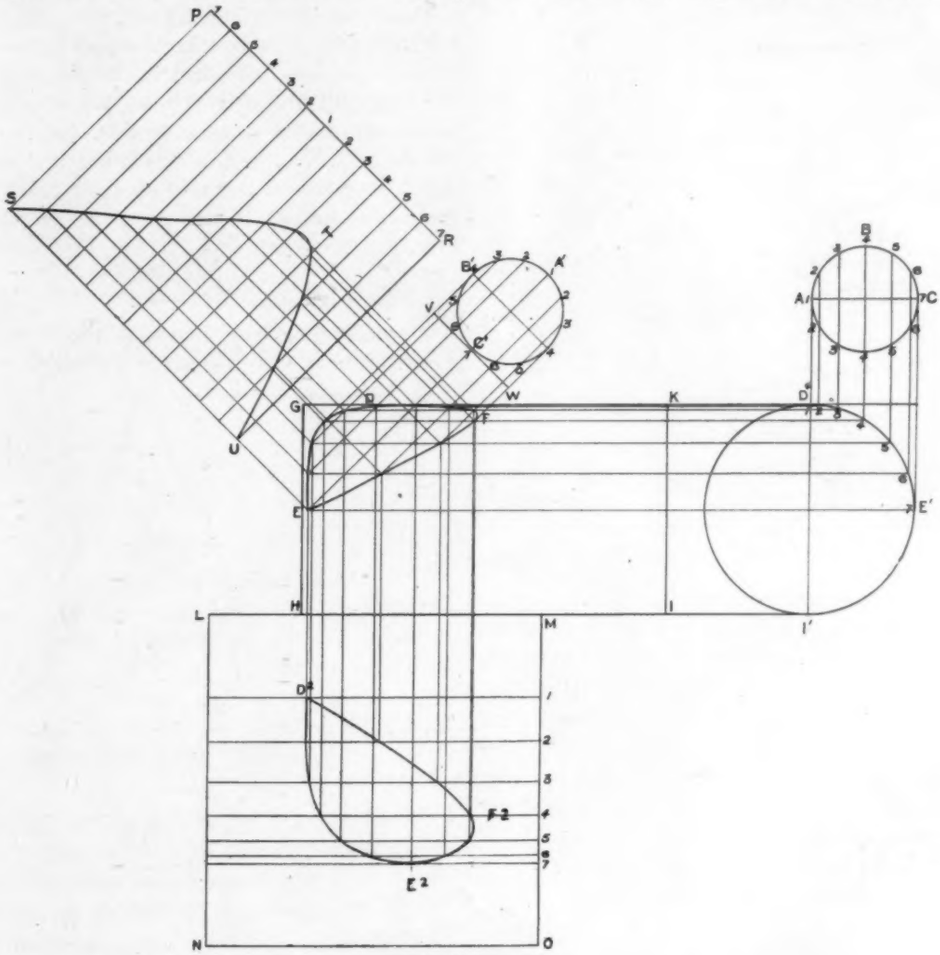
A 45 Degree Tee.

To THE AMERICAN ARTISAN:

I am sending you herewith a pattern development for the irregularly intersecting cylinders as asked for by Martin Foeste in a recent issue of THE AMERICAN ARTISAN.

Let C B A be the size of the small pipe and let D E I be the size of the larger pipe between which the joint is required at an angle represented by W F K. The small pipe to be placed upon the side of the larger. Draw an elevation of the pipes joined as shown by V D G H I K F W. Place profile or section of the arm in line as shown by C B A opposite and in line with the end of the main pipe and draw a section of it as shown by D E I. Directly above this section draw a second profile of the small pipe as shown by A B C, placing the center of it relative to the center of the profile of the large pipe in the same position that the arm is to have in the main pipe. Divide the two profiles of the small pipe into the same number of equal spaces commencing at the same point in each. From the division in C B A drop lines parallel to the line of the arm independently. From the division in A B C drop lines until they cut the profile of the large pipe as shown by the points in the arc D E. From these points carry lines to the left producing them until they intersect the corresponding lines from C B A. A line traced through these points of intersection as shown by D E F will be the miter line between the two pipes. For the pattern at the arm proceed as follows:

Lay off a stretchout at right angles to and opposite the end of the arm as shown by R P and through the points in it draw the usual measuring lines. Place the T-square at right angle to the arm, bringing it successively against the points in the miter, cut the corresponding measuring lines and line traced through these points as shown by U T S will form the required pattern. For the pattern of the main pipe draw a stretchout line opposite one end of it as shown by N O, numbering the divisions in it with reference to locating the seam which can be placed at any point desired. Draw a line corresponding to the stretchout line oppo-



Irregular Intersection.

site the other end of the pipe as shown by L N and connect L M and N O through as many of the points in the stretchout line as correspond to the points forming the miter line D E F in the elevation. Draw measuring lines as shown by 1 2 3 4 5 6 7 at right angles to the main pipe and bringing, the blade against the points in D E F successively cut the corresponding measuring line off as shown by the dotted line. A line traced through these points of intersection as shown by E_2, D_2, F_2, will give the shape of the opening to be cut in the pattern. Very truly,

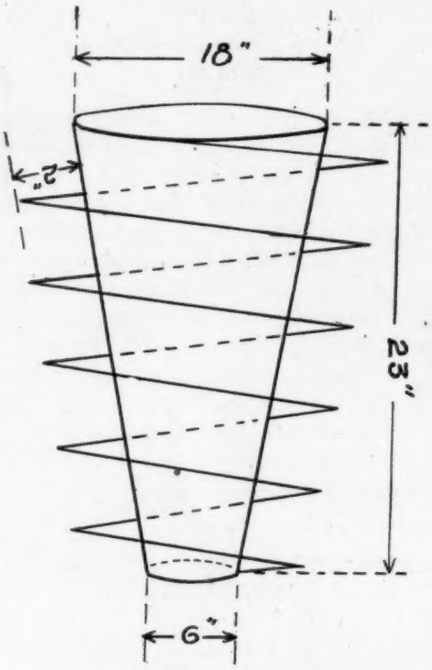
OLAF ULEN.

Viroqua, Wis., February 28, 1908.

A TINNER'S QUESTION.

TO THE AMERICAN ARTISAN:

Will you kindly tell me through your columns how to lay out the patterns for a continuous spiral 2 inches



Continuous Spiral.

wide and six times around a cone 18 inches in diameter at the large end and 6 inches in diameter at the small end and 23 inches long. What I mean by continuous spiral is that it shall be run similar to the thread on a bolt, but the spiral in this case is to be cut in sections and riveted together. I wish to know how to lay out one section of about once around the cone. I send a sketch herewith showing what I require. This is to be made of 22 galvanized iron.

Respectfully yours,

E. Z. R.

Lancaster, Pa., March 6, 1908.

A SWEATING ROOF QUESTION.

We have a tin roof over a store room occupied as a furniture store. The house is 40 feet wide, 132 feet deep and three stories high. It is well ventilated. For some reason, which we are unable to understand, the roof sweats very bady. At times it drips off into the house as if it were raining. We have put three large ventilators in the roof, but these do not help matters. There is no fire in the building except in a small office on the street floor. We desire through the columns of THE AMERICAN ARTISAN to be informed by some of its many readers, as to what is the cause of the sweating of the roof and to learn how it may be remedied.

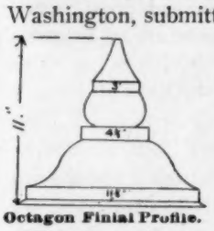
Very truly,

DIUGUID & CO.

Lynchburg, Va., March 2, 1908.

OCTAGON FINIAL PLANS WANTED.

Under a recent date Mr. Otto Schaal, of Aberdeen, Washington, submitted the accompanying design of an octagon finial to be made in sheet metal, accompanied by a request addressed to accommodating "Tinks," and asking that some of them furnish a pattern development for the finial as here shown in profile.

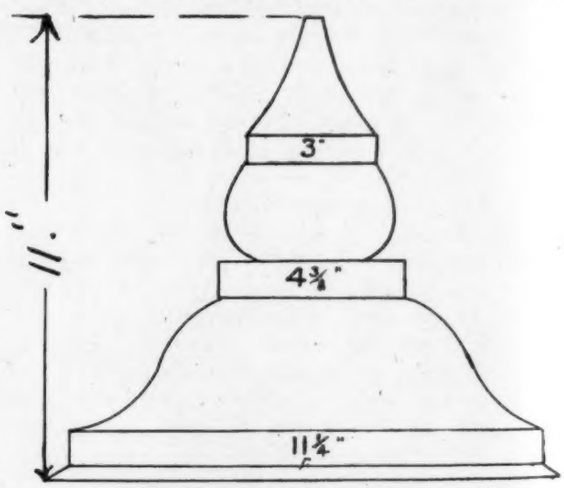


Octagon Finial Profile.

This is an interesting inquiry. A reply thereto accompanied by drawings by Morris Ellinger, of Cheyenne, Wyo., was published in our issue of March 7. We take pleasure in submitting herewith another development of the pattern by Mr. Henry Meyer, of Beckley, W. Va., and in this connection we take occasion to continue the invitation for contributions on the same subject. Mr. Meyer's contribution and drawings here follow:

TO THE AMERICAN ARTISAN:

I am sending you herewith the drawing as requested by Mr. Otto Schaal in your issue of February

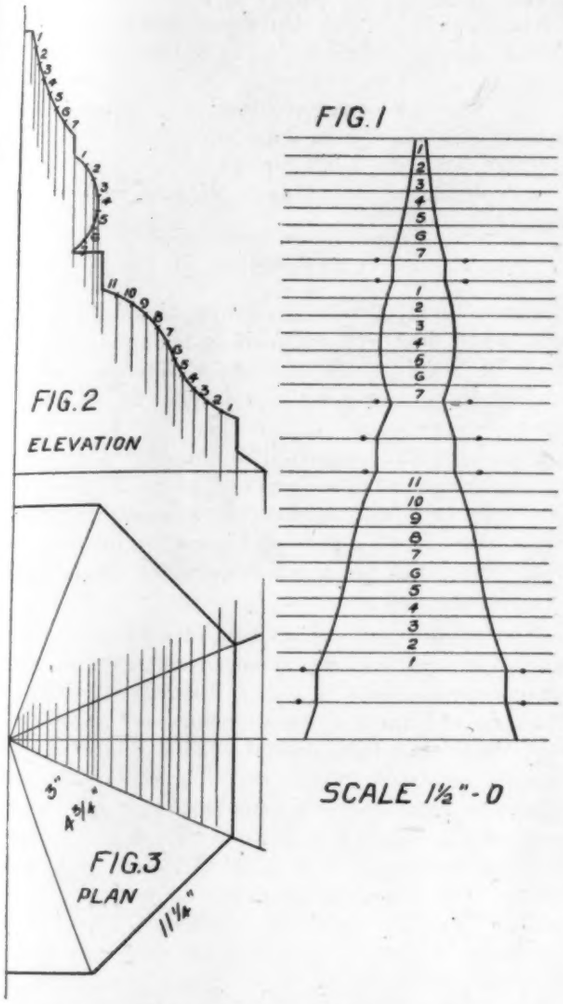


Octagon Finial Profile.

22 and I trust it will aid him in developing his pattern for finial. As Mr. Schaal understands the method used in laying out an octagon miter it is not necessary to go into details for development of pattern. To lay out the pattern for desired dimensions proceed as shown in the accompanying drawing. Construct plan (or half plan) as represented by dimensions for each segment in profile. The elevation may then be drawn as shown in Fig. 2. Next divide the curves of the elevation into any convenient number of spaces and the stretch-out may accordingly be laid

off from spaces taken from elevation. This will give the height of the finial.

Rule.—To develop pattern for octagon of any given diameter construct the octagon in accordance with the greatest width mentioned. If the greatest diameter of an octagon would measure 11¼ inches



the diameter of the plan for octagon must be 11¼ inches measured on a horizontal or on a vertical center line.

Respectfully,

HENRY MEYER.

Beckley, W. Va., March 3, 1908.

"THE BEAR AND THE JAP."

An allegorical picture, representing Japan and Russia is used in connection with some conventionalized paneling work under the above title as a theme for making up what is used to advertise the Bassett-product the company says in the leaflet: "This Solder of which a representation of a bar of the solder done in silver bronze effect is shown. In relation to the product the company says in the leaflet: This Solder is prepared from a special proportion of pure tin and lead. The secret of good solder lies in the careful selection of ingredients, true proportion and perfect assimilation. 'Crown' Solder flows evenly and is the cheapest Solder to use for best results." This leaflet is but one of a number of interesting ones by the company relating to tin and roofing affairs. Either or all of them may be had upon application to the Bassett-Presley Co., 402-415 Western Reserve Building, Cleveland, O. When writing kindly mention THE AMERICAN ARTISAN.

TEXAS SHEET METAL WORKERS.

In January last the Master Sheet Metal Workers' Association at Galveston, Tex., conceived the idea of forming a state association of sheet metal workers and in accordance with the idea a subsequent meeting of the different locals in Texas was arranged for and invitations were sent out for a meeting to be held in Galveston on February 21-22, to the end of effecting a permanent state organization.

On Friday, February 21st, delegates from the principal Texas cities presented themselves and at 11 o'clock a. m., met in the Elks' Club and took steps towards effecting a state organization. Mr. T. P. Walsh, of San Antonio, was chosen temporary chairman and H. G. Garbade, of Galveston, secretary. The meeting was called to order and committees on credentials and by laws were named.

After outlining the program for the two days' session, the meeting adjourned.

On the afternoon of Friday, the local association entertained the visiting delegates. Those in attendance at the meeting were: T. P. Walsh, A. W. Chatfield and H. B. Vodrie, San Antonio; Shannon, A. Berger, G. C. Eiseman, E. E. Holtkamp and Phillip Blumenthal, Houston; Frank Hanson, Dallas; S. A. Menczer, Fort Worth; W. C. Torbett and L. G. Mye, Waco; J. O. Buaas, Austin; Fred Hartel, George P. Werner, H. C. Oppermann, A. Fedder, W. A. Hoffman, W. J. Schmidt, G. A. Bourquin and H. G. Garbade, Galveston.

SECOND DAY.

The meeting was called to order at nine o'clock by chairman Walsh, following which considerable time was spent by 25 or 30 delegates in discussing the future work of the association.

The report of the committees as presented and the committees were dissolved following which the election of officers was held resulting in the election of the following: President, T. P. Walsh, San Antonio; Vice President, J. O. Buass, Austin; Secretary-Treasurer, S. A. Menczer, Fort Worth; Sergeant-at-Arms, Fred Hartel, Galveston.

The Executive Committee consists of Frank Hansom, Dallas; W. C. Torbett, Waco; E. E. Holdcamp, Houston; A. W. Chatfield, San Antonio, and H. C. Oppermann, Galveston. The meeting then adjourned.

San Antonio, Tex., was selected as the place for holding the first annual convention which will be subject to call by the Executive Committee.

The closing entertainment feature which was in the hands of the local association of sheet metal workers was an oyster roast at what is known as "Nick's Place" on the Island, where the entire afternoon was spent in feasting and impromptu talks.

The organization starts out with a membership of eighty, drawn from Dallas, Fort Worth, Houston, Austin, San Antonio and Galveston.

CHANGE IN DISCOUNTS ANNOUNCED.

The Eaves Trough and Conductor Pipe Association announces a readjustment of discounts on conductor pipe, eaves trough, plain ridge roll and V ridge cap and formed valley. The new sheet of discounts was issued on March 17, the discounts to go into effect also on March 17. The list prices to which the discounts apply are those of the association's standard list of March 1, 1906. The discounts stated are those ruling at point of destination and not at point of shipment. The discounts shown herewith are those authorized to apply to the several divisions of territory recognized by the association as Eastern, Pittsburg, Central, Northwestern, Western, Tennessee, Southern and Southwestern. In the discount arrangement as here presented these divisions of territory are indicated by abbreviations in parenthesis, thus (e) Eastern, (p) Pittsburg, (c) Central, (nw) Northwestern, (w) Western, (ten) Tennessee, (so) Southern, (sw) Southwestern. To some extent territorial lines have been changed since the previous announcement was made. The new discounts follow:

CONDUCTOR PIPE.

Galv. Steel, Standard sizes and gauges, (e) 70-10%—(p) 75-10-5%—(c) 75-10%—(nw) 75-7½%—(w) 70-12½%—(ten) 70-10%—(so) 70%—(sw) 70%.

Galv. Steel, Irreg. sizes and gauges, (e) 70-10-5%—(p) 75%—(c) 75%—(nw) 75%—(w) 70-10%—(ten) 75%—(so) 70-10%—(sw) 70%.

Galv. C. C. Iron, Standard sizes and gauges, (e) 50-10-7½%—(p) 60%—(c) 60%—(nw) 60%—(w) 50-12½%—(ten) 50-12½%—(so) 50-12½%—(sw) 50-5%.

Galv. C. C. Iron Irreg. sizes and gauges, (e) 70-5%—(p) 70-5%—(c) 70-5%—(nw) 70-5%—(w) 70%—(ten) 70-5%—(so) 70%—(sw) 65-10%.

EAVES TROUGH.

Galv. Steel, Standard sizes and gauges, (e) 75-10-5%—(p) 80-20%—(c) 80-10-10-2½%—(nw) 80-10-10%—(w) 80-10%—(ten) 80-5%—(so) 80%—(sw) 75-10-2½%.

Galv. Steel Irreg. sizes and gauges, (e) 75%—(p) 75%—(c) 75%—(nw) 75%—(w) 70-10%—(ten) 75%—(so) 70-10%—(sw) 70%.

Galv. C. C. Iron, Standard sizes and gauges, (e) 60-20%—(p) 65-10%—(c) 65-10%—(nw) 65-10%—(w) 60-10-5%—(ten) 60-10-5%—(so) 60-10-5%—(sw) 60-5%.

Galv. C. C. Irreg. sizes and gauges, (e) 70-5%—(p) 70-5%—(c) 70-5%—(nw) 70-5%—(w) 70%—(ten) 70-5%—(so) 70%—(sw) 65-10%.

PLAIN RIDGE ROLL AND V. RIDGE CAP.

Galv. Steel Crated, (e) 80%—(p) 80-20%—(c) 80-10-10-2½%—(nw) 80-10-10%—(w) 80-10%—(ten) 80-5%—(so) 80%—(sw) 75-10-2½%.

Galv. Steel, Wired in bundles, (p) 80-20-5%—(c) 80-10-10-5%—(nw) 80-10-10-2½%—(w) 80-10-2½%—(ten) 80-5-5%—(sw) 75-10-7½%.

Galv. C. C. Iron Crated, (e) 70%—(p) 65-10%—(c) 65-10%—(nw) 65-10%—(w) 60-10-5%—(ten) 60-10-5%—(so) 60-10-5%—(sw) 60-5%.

FORMED VALLEY.

Galv. Steel, (e) 60-20-5%—(p) 70-10-10%—(c) 70-20%—(nw) 75%—(w) 60-20-10-5%—(ten) 70-2½%—(so) 60-20-5%—(sw) 60-10-7½%.

Galv. C. C. Iron, (e) 40-20%—(p) 50-5%—(c) 50-5%—(nw) 50-5%—(w) 40-10%—(ten) 40-10%—(so) 40-10%—(sw) 40-2½%.

NOTES AND QUERIES.

RED ROPE WATER-PROOF SHEATHING PAPER.

From Backman Sheet Metal Works, 405-407 E. Second St., Des Moines, Ia.

Kindly give us the names of firms dealing in Red Rope Water-Sheathing Paper.

Ans.—H. H. Hopkins Company, 50 Dearborn street, Chicago, and F. W. Bird & Son, 1434 Monadnock building, Chicago.

WIRE SPECIALTIES.

From Edward Katzinger Co., 11-13 S. Peoria St., Chicago.

Will you kindly supply us with some addresses of manufacturers of wire specialties?

Ans.—E. H. Tichener & Co., Binghamton, N. Y.; Arcade Mfg. Co., Freeport, Ill.; Troy Nickel Works, Albany, N. Y.; Fanner Mfg. Co., Cleveland, O.; Denning Wire & Fence Company, Cedar Rapids, Ia.; Wire Specialty Co., 43-47 Fulton St., Chicago.

SPIRAL FIRE ESCAPES.

From Spradling & Flagg, Hoopeston, Ill.

Who makes spiral fire escapes?

Ans.—Dow Wire Works, Louisville, Ky.

No. 12 ADVANCE DRILL.

From C. E. Mueller, Mt. Pulaski, Ill.

Where can I get No. 12 Advance Drill?

Ans.—Samuel Harris & Co., 23 S. Clinton St., Chicago.

BLOCK TIN PIPE.

From Ed H. Changnon, St. Anne, Ill.

Where can I buy block tin pipe?

Ans.—Raymond Lead Co., 59 W. Lake street, Chicago.

ITEMS.

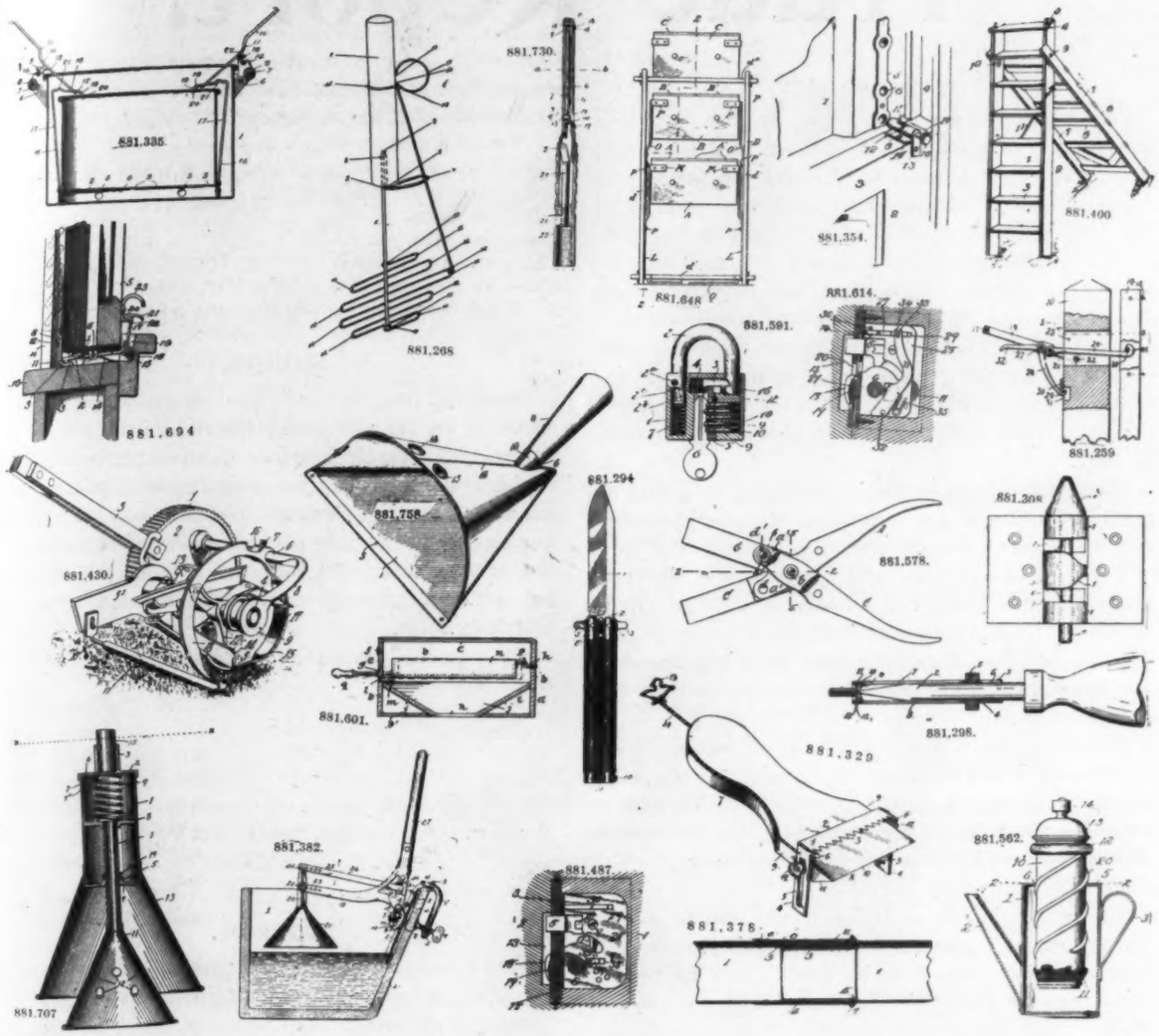
A new three story brick factory building for the purposes of sheet iron work will be built quite shortly by R. G. Wright & Co. of Buffalo. The site has already been chosen in a 52x92 foot lot at 128 Swan street.

It is stated that owing to the death of H. M. Smith, the managing head of the Commonwealth Machine Co. of Worcester, Mass., sheet metal machinery manufacturers, the business affairs of the concern are to be wound up and its business and its equipment and other assets disposed of.

A pretty and very useful item of advertising matter that is being sent out to patrons and to those who make requests for it is by the Eller Manufacturing Company of Canton, O., manufacturers of metal ceilings, cornice, skylights, metal window frames, eaves trough, conductor pipe, etc. The device is an aluminum letter opener a little more than six inches long, which, in addition to having a sharpened edge, has upon its straight edge a six-inch rule run in sixteenths. A pretty scroll embossed upon one side reads, "The Eller Mfg. Co., Canton, O., fine metal ceilings." A similar scroll upon the other side reads, "Cornice and skylights, eaves trough and conductor pipes, roofings." It is a very worthy little instrument for desk use, or it may be very conveniently carried in the vest pocket. It is light, bright and pretty.

Miss Lizzie Dickleman of Forest, O., the daughter of J. L. Dickleman, of the J. L. Dickleman Mfg. Co., of Forest, O., has purchased the entire interest of the company for $165,000. The company manufactured metal roofing, spouting, guttering cornices, etc., and was the property of J. L. Dickleman and his daughter Lizzie until it recently went into the hands of a receiver, and was afterwards sold to Mr. Dickleman for $181,000. Miss Lizzie being a spirited bidder against her father. The purchaser failing to raise the money to settle the cash payment, Miss Lizzie came to the front and bought the entire interest in her own name. Those who have had to do with the business of this company heretofore as the J. L. Dickleman Mfg. Co., will appreciate the situation, as Miss Lizzie Dickleman has been considered a thoroughly shrewd and capable business woman by all who have had to do with the company in its past history.

NEW PATENTS.



881,259. Gate Fastener. Peter O. Peterson, Winona, S. Dak. Filed Dec. 5, 1907. Serial No. 405,242.

881,268. Combination Kitchen Utensil. Charles R. Tuson, Windsor, Ontario, Canada. Filed Sept. 27, 1907. Serial No. 394,890.

881,294. Knife. Charles E. Billings, Hartford, Conn. Filed Nov. 11, 1907. Serial No. 401,569.

881,298. Screwdriver and Attachment Therefor. James M. Chappel, Dallas, Tex. Filed April 16, 1906. Serial No. 311,983.

881,308. Hinge. James W. Donaldson, Houston, Tex. Filed July 9, 1907. Serial No. 382,903.

881,329. Fruit and Vegetable Parer and Slicer. Sosoku Nagasse, Los Angeles, Cal. Filed Feb. 28, 1907. Serial No. 359,929.

881,335. Washboiler. Isaac B. Parsons, Bathgate, N. D. Filed June 28, 1907. Serial No. 381,236.

881,354. Sash Lock. George W. Stewart, Fort Wayne, Ind. Filed Sept. 5, 1907. Serial No. 391,480.

881,378. Stovepipe Joint. Orrin M. Cowles, Devils Lake, N. D. Filed July 16, 1907. Serial No. 383,999.

881,382. Washing Machine. Cyrus A. Dodge, Syracuse, N. Y. Filed Jan. 5, 1907. Serial No. 350,995.

881,400. Combined Step and Extension Ladder. Isaac M. Harpster, Ironwood, Mich. Filed May 12, 1906. Serial No. 316,586.

881,430. Lawn Mower. William N. Merritt, Nocona, Tex. Filed Apr. 30, 1907. Serial No. 371,068.

881,487. Door Lock. Frank P. Ffleghar, Jr., New Haven, Conn., asignor to F. P. Pfleghar & Son, New Haven, Conn., a firm. Filed June 1, 1906. Serial No. 319,683.

881,562. Cooking or Culinary Utensil. Leroy J. Ellis, Plainfield, N. J. Filed May 29, 1907. Serial No. 376,370.

881,578. Cutting Implement. George W. Haskins, New York, N. Y., assignor to Abbot Augustus Low, Horseshoe, N. Y. Filed Oct. 26, 1907. Serial No. 399,375.

881,591. Padlock. Charles E. Johnson, New Britain, Conn., assignor to Corbin Cabinet Lock Company, New Britain, Conn., a corporation of Connecticut. Filed Aug. 23, 1907. Serial No. 389,805.

881,601. Ash Sifter. Adele Manzo, Paterson, N. J. Filed Oct. 31, 1907. Serial No. 400,067.

881,614. Door Lock. Frank P. Pfleghar, Jr., New Haven, Conn., assignor to F. P. Pfleghar & Son, New Haven, Conn., a firm. Filed May 22, 1906. Serial No. 318,119.

881,648. Cooking and Heat-Retaining Apparatus. Marcus O. Anthony, New York, N. Y. Filed Sept. 22, 1906. Serial No. 335,741.

881,694. Combined Sash and Blind Lock. Charles N. Kalstrom, Manson, N. C. Filed July 16, 1907. Serial No. 384,030.

881,707. Clothes Pounder. George E. Norris, Columbus, Ohio. Filed Nov. 29, 1907. Serial No. 404,370.

881,730. Safety Razor. Levi T. Snow, New Haven, Conn. Filed Sept. 11, 1905. Serial No. 277,881.

881,758. Household Article. Jehiel F. Wynkoop, Minneapolis, Minn. Filed Apr. 24, 1907. Serial No. 370,054.

Trade Report.

HARDWARE.

The manufacturing and jobbing hardware trade is substantially as good as at the present time as it ought to be. We do not mean by this that the people who represent these interests are satisfied with what is being done just now but the fact remains that in a comparison of the business of a number of years included in which are some of the years that have been more prosperous in hardware than any other years will show a good strong average of wholesale hardware merchandising for the current period of the current year. Following the holidays and following the first day of the year, trade which opened up slowly has increased steadily.

Manufacturers have had a breathing spell that has permitted them to get caught up with their business and the same may be said as to the hardware jobbers.

Throughout the West and Northwest in particular everybody has money, everybody is buying. Retail stocks are in excellent condition, retail hardware dealers owe less than they have ever owed and they have less unpaid accounts on their own books than they have ever had.

Summing the whole matter up as relates to the Northwest, it has been very truly said that the people of this great section probably would never have known anything about our recent panic if it had not been for the newspapers and even at that they have given the matter very slight consideration.

Business is in fair condition to-day among jobbers. Prices are well sustained throughout, practically all lines and there seems to be little if any inquiry for reductions or shading. The Eaves Trough and Conductor Pipe Association on March 17 issued a new schedule of discounts in which nearly the entire line of eaves trough, conductor pipes, and cognate goods are affected. This readjustment went into effect on March 17, the day of its issue. The discount represents an incerase of prices in the line of practically twenty per cent. Wire and wire products are still in strong demand in the market, and prices are steady with wire nails at $2.23; painted barb wire $2.38; galvanized barb wire, $2.68; smooth annealed wire, $2.08; smooth galvanized wire, $2.38; polished staples, $2.23; galvanized staples, $2.63. Car lots to retailers 5c higher, less than cars 15c higher.

In cut nails quotations are: Iron cut, cars, to jobbers, $2.38; cars, to retailers, $2.43; steel cut, cars, to jobbers, $2.28; cars, to retailers, $2.33.

TIN PLATE.

The tin plate market is getting into better shape. Orders are coming in more freely, and plants are gradually resuming. Business at present is mainly routine, but manufacturers are optimistic over the outlook. Prices are $3.70 at Pittsburg mills, with the independents quoting $3.65. Price f. o. b. Swansea for tin plate is 12s 1½d. Arrivals of tin plate for the week ending March 7 were 11,535 boxes at New York and 87 boxes at Philadelphia. Stock of tin plate at Swansea on Feb. 27 was 227,022 boxes, as compared with 134,975 boxes at the same time last year.

For prompt shipment, f. o. b. mill—

Coke, tins, 14x120, I. C.	$3.85@$3.90
Coke tins, 14x20, 100 lbs.	3.70@ 3.75
Coke, tins, 14x20, 95 lbs.	3.65@ 3.70
Coke, tins, 14x20, 90 lbs.	3.60@ 3.65
Charcoal, terne, 20x28, I. C.	7.30@ 7.35
Charcoal, terne, 20x28, 200 lbs.	7.00@7.05

Usual differences for odd sizes and weights.

SHEETS.

The belief that there will be a somewhat general increase in the price of both black and galvanized sheets in the very near future has to an extent stimulated buying. It has at least put a firmer tone into the market and particularly into the Western market. Quotations at the mills give no indications of weakness at the present time. In fact the tone at the mills is buoyant. A gain is reported in the operations of Pittsburg mills.

The following prices are for 500-bundle lots and over, f. o. b. mill:

		—Galvanized—	
Gauge.	Net.	Net.	List.
No. 30	2.75	4.05	21
No. 29	2.65	3.80	19
No. 28	2.50	3.65	17
No. 27	2.40	3.35	16
Nos. 25 to 26	2.35	3.15	15
Nos. 22 to 24	2.30	2.95	14

COPPER.

The European movement is gradually shrinking, but its effect is over, and the manipulation of the huge stocks of the metal that were in this country six months ago has been carried through successfully by the American producers. The diversion of this surplus to the foreign markets has so far taken in the slack that it is now possible to handle the present production and surplus of the metal in this country without fear of a depreciation in price. Foreign manufacturers have gained something over their American competitors in the fact that they have been able to secure large blocks of the metal at lower prices than the domestic consumers.

There is every reason to believe with the improvement in the American market, that the large stocks in the European warehouses will be slow in coming out, owing to the greater ease with which they can be carried, and the prospect of an advance in the metal in all the markets of the world. So far as the American market is concerned, the daily increase in the takings of domestic consumers must be followed by a continued strengthening of the market in the face of the rapidly diminishing surplus. Domestic consumption is gradually working back to normal proportions, but there is still no indication that the large manufacturers of the metal will come into the market for any large blocks of copper for some months yet. It had been hoped that the present low prices would have induced some speculation in the metal, but the effects

of the recent stringency in the money market have not yet worn off, and operators are cautious to a degree.

A report that a subsidiary of the General Electric Co. had bought 3,000,000 pounds of electrolytic is not confirmed. Quotations on the New York Metal Exchange were unchanged on the basis of 12¾@13c for lake, 12⅝@12⅞c for electrolytic and 12½@12¾c for casting copper.

Exports from Baltimore were 786 tons or 11,408 tons since the beginning of the month. There were no arrivals.

The London market was as follows:

Extreme fluctuations for the year:

	Highest.	Lowest.
Electrolytic copper, spot	13¾	12¼
Lake copper, spot	13⅞	12⅜
Casting copper, spot	13½	12⅛

SPELTER.

The spelter market was quiet yesterday, with a small demand from consumers, who are more inclined to meet sellers' views. Immediate shipments from the West were held at 4.65@4.70c, and futures at 4.55@4.60c, f. o. b. New York. The St. Louis market was strong and higher at 4.60@4.65c. The London market was firm at £21 7s 6d.

Extreme fluctuations for this year:

	Highest.	Lowest.
Spot, New York	4.80c	4.32½c
Spot, London	£22 0 0	£19 17 6

SHEET ZINC.

Business in sheet zinc continues of small proportions. Consumers are taking nothing beyond actual requirements for immediate use, and trading is mainly routine in character. Prices are steady on the basis of $7.00 per 100 pounds f. o. b. smelter.

ALUMINUM.

Trading in aluminum is more or less of a routine character, with business of small proportions. Prices are easy. No. 1 ingots for remelting are offered at 33@34c per pound in ton lots, and No. 2 ingots at 31@32c in car lots for 90 per cent pure.

PIG IRON.

It is claimed and to an extent believed that the present price of Southern iron, Birmingham, is as low as it will go this year. The Moore Bros. Co., stove manufacturers of Joliet, Ill., is reported to have taken 2,000 tons of Southern under contract, the delivery to extend over the second, third and fourth quarters of 1908. The handling of the order is said to have been with the Dayton Coal & Iron Co., and that it covers standard foundry quality. A little more activity is noticeable in the Chicago market than was evidenced last week. Several fair sized orders have been placed, but in each case it would appear that the very lowest prices have been arrived at before contracts were made. It is stated that foundries are using at the present time about 30 per cent of their melting capacity. Basic continues strongest in the iron market.

CHICAGO MARKET.

Lake Superior Charcoal	$21.50@22.00
Northern Foundry No. 1	17.85@18.35
Northern Foundry No. 2	17.35@17.85
Northern Foundry No. 3	16.85@17.35
Southern Foundry No. 1	17.35@17.85
Southern Foundry No. 2	16.85@17.35
Southern Foundry No. 3	16.35@16.85
Southern Foundry No. 4	15.85@16.35
Southern No. 1 Soft	17.35@17.85
Southern No. 2 Soft	16.85@17.35
Southern Gray Forge	15.35@15.85
Southern Mottled	15.10@15.60

PITTSBURG MARKET.

No. 2 Foundry	$16.40@16.90
Gray Forge	16.15
Bessemer	17.90
Basic	16.90
Malleable	16.90@17.15
Southern No. 2	17.40@17.90
Southern Forge	15.90@16.40

BIRMINGHAM MARKET.

No. 1 Foundry	$13.00@14.00
No. 1 Soft	13.00@14.00
No. 2 Foundry	12.00@12.50
No. 2 Soft	12.00@12.50
Gray Forge	11.25

Rogers, Brown & Co., Cincinnati, will say in their weekly report: Current sales of Northern and Southern iron in this territory continue light, and this same is true of the reports from other points. There are some fair inquiries and business is still pending which would foot up a quite respectable tonnage for the week.

It is generally estimated that foundries and rolling mills are operating at about thirty per cent of their capacity and any immediate increase in this operation is problematical.

While several grades and varieties of pig iron are being called for, Basic is to all intents the strongest one on the list, and is being kept up by the demands for this grade which have been coming in for some time.

There is a better sentiment among buyers toward future business than there has been heretofore this year and, slight as this tendency is, it should not be disregarded as an indication that some contracting is being done for future delivery and the need for pig iron in such business must be investigated and taken care of. Specifications for shipments on hold-up contracts are still proceeding at about the same rate and the iron is going directly into the melt.

Pig iron buying has been stimulated at some points by the fact that many of the high priced orders held over from last year on which shipments have been going forward, have been worked out and consumers can proceed to figure their costs and profits on contracts on the present market.

Matthew Addy & Co., Cincinnati, will say in their weekly report: There will be no lion in the iron trade this month It is a nice little lamb of a month, but it is a lamb that is growing every day and getting a little bit more woolly right along. In other words, business is slow, but not dead.

The actual transactions are mostly comparatively small and all for practically quick delivery, but the volume of trade is growing. We struck low water mark with a dull, cold thud some time last November or December, and ever since the beginning of this year the iron trade has been reviving, taking as the standard the amount of iron melted. Judged by the fact that the consumption of iron is steadily increasing, not rapidly, but slowly and surely, things are improving.

In the way of prices, there has been no improvement. As a matter of fact, there is something of a deadlock between consumers and producers in the matter of quotations. Many consumers seem to have an idea that in spite of the terrific shrinkage in the values of pigiron that there is still room for a further reduction, and they are trying to beat down the market. For some time past these efforts have been entirely unavailing, and furnacemen have refused to make any concessions. In the case of many of them it is difficult to see how further concessions would be possible in view of the fact that prices are already at the cost of production.

Coke has been much more active.

Current Hardware and Metal Prices.

THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	14x20	$6 40
IX	14x20	7 45
IXX	14x20	8 60
IXXX	14x20	9 85
IXXXX	14x20	11 00
IC	20x28	13 70
IX	20x28	15 70
IXX	20x28	18 15
IXXX	20x28	20 55
IXXXX	20x28	22 95

COKE PLATES.

Cokes, 180 lbs	IC	20x28	$ 8 50
Cokes, 200 lbs	IC	20x28	9 00
Cokes, 216 lbs	IC	20x28	9 50
Cokes, 270 lbs	IX	20x28	11 25

PIG IRON.

North'n Fdy., No. 1	$17 85@$18 35
North'n Fdy., No. 2	17 35@ 17 85
North'n Fdy., No. 3	16 85@ 17 35
Southern Fdy., No. 1	17 35@ 17 85
Southern Fdy., No. 2	16 85@ 17 35
Southern Fdy., No. 3	16 35@ 16 85
Southern Fdy., No. 4	15 85@ 16 35
Southern No. 1 Soft	17 35@ 17 85
Southern No. 2 Soft	16 85@ 17 35
Southern Gray Forge	15 35@ 15 85
Southern Mottled	15 10@ 15 60
Lake Sup. Charcoal	21 50@ 22 00
Southern Silveries, 4% Silicon	18 85@ 19 35
Southern Silveries, 5% Silicon	19 35@ 19 85
Southern Silveries, 6% Silicon	20 35@ 20 85
Jackson Co. Silveries, 6 per cent	21 90@ 22 40
Jackson Co. Silveries, 8 per cent	23 90@ 24 40
Jackson Co. Silveries, 10 per cent	25 90@ 26 40
Malleable Bessemer	18 00@ 18 50
Standard Bessemer	19 40@ 19 90
Alabama Basic	17 35@ 17 85

BLACK STEEL SHEETS.

Nos. 11-12	per 100 lbs.	$2 60
Nos. 13-14	per 100 lbs.	2 65
Nos. 15-16	per 100 lbs.	2 70
Nos. 17-21	per 100 lbs.	2 75
Nos. 22-24	per 100 lbs.	2 80
Nos. 25-26	per 100 lbs.	2 85
No 27	per 100 lbs	2 90
No 28	per 100 lbs.	3 00

GALVANIZED

No. 10	per 100 lbs.	$2 25
Nos. 12-14	per 100 lbs.	2 45
No. 16	per 100 lbs.	2 65
Nos. 17-21	per 100 lbs.	2 85
Nos. 22-24	per 100 lbs.	3 05
Nos. 25-26	per 100 lbs.	3 25
No. 27	per 100 lbs.	3 45
No. 28	per 100 lbs.	3 65

POLISHED SHEET STEEL.

No. 24	per 100 lbs	$4 90
No. 26	per 100 lbs.	5 00
No. 27	per 100 lbs.	5 10
No. 28	per 100 lbs.	5 20

SMOOTH STEEL.

Wood's Smooth, No. 20		$3 05
" "	No. 22-24	3 10
" "	No. 25-26	3 15
" "	No. 27	3 20
" "	No. 28	3 30

PATENT PLANISHED SHEET IRON.

Patent Planished Sheet Iron, "A" $10.20, "B" $9 20

PATENT PLANISHED SHEET STEEL.

Dickey Planished Sheet Steel 8½c

SOLDER.

XXX Guaranteed ½ & ½	per lb.	18 c
Commercial ½ & ½	per lb.	17½c
No. 1 Plumbers		15½c

SHEET ZINC.

500 lb. Casks	case, per cwt.	$7 50
300 lb. Casks	per cwt.	7 50
Sheets	per cwt.	7 50

COPPER.

Copper sheet, 100 lbs. over, base ... 20c

TIN PIGS AND BARS.

Banca, pigs, per lb	29 c
Straights, pigs, per lb	29 c
Straights in bars, per lb	33 c

LEAD.

American Pig	4 c
Bar	4 c
National (White) brands (in less than 100 lb lots), per lb	8½c

Sheet.

Full coils	per 100 lbs.	$9 00
Cut coils	per 100 lbs.	9 50

HARDWARE.

ADZES.

Carpenters'.
Plumbs 40%

Coopers'.
Barton's 20%
White's 15%

Railroad
Plumbs 40%

Ship.
Plumbs 40%
White's 12½%

AMMUNITION.

Caps, Percussion—per 1,000.

F. L Waterproof, 1-10s	40c
G D	35c
Musket	60c

Shells, Loaded—
Loaded with Black Powder 40%
Loaded with Smokeless Powder, medium grade ..... 40 & 5%
Loaded with Smokeless Powder, high grade ..... 40 & 10 & 10%

Union Metallic Cartridge Co.:
New Club, Black Powders 40%
Nitro Club, Smokeless Powders, ... 40 & 5%
Arrow, Smokeless Powders .... 40 & 10 & 10%

Winchester:
Smokeless Repeater Grade. . 40 & 5%
Smokeless Leader Grade. 40&10&10%
Black Powder 40%

Gun Wads—per 1,000.
Winchester Gun Wads 15%

Powder.

		Each.
DuPont's Sporting, kegs		$ 50
" "	½ kegs	2 50
" "	¼ kegs	1 40
Dupont's Sm'k'less.	50-lb. drum	22 45
" "	25-lb. kegs	11 30
" "	12½-lb. kegs.	5 80
" "	6¼-lb. kegs.	2 97
"	1-lb. cans	15

Shot.

Drop shot, sizes smaller than B, 25-lb. bags, per bag	1 95
Drop shot, B and larger sizes, 25-lb. bags, per bag	2 20
Buck Shot, 25-lb. bags, per bag	2 20
Chilled Shot, 25-lb. bags, "	2 20

ANCHORS

Expansion Screw Anchors 10%

ANVILS

Trenton, 70 to 80 lbs	9½c per lb
Trenton, 81 to 150 lbs	9½c per lb

ASBESTOS.

Board and Paper 25%

AUGURS.

Boring Machine 70%
Irwin's ..... 40&10%
Carpenter's Nut 70%
Hollow.
Bonney's—list $30.00 ..... 75&5%.
Stearns, No. 3 ..... 36 00
Post Hole.
Digwell, 8-inch ..... per doz. 12 50
Iwan's Post Hole and Well .. 40%
Vaughan's, 4 to 9-in., per doz. 6 25
Rafting.
Snell's ..... 50&5%
Ship.
Ford's, with or wi'out screw. 40-12½%
Snell's " " " 40-5%

AWLS.

Brad.

No. 3 Handled	per doz.	$0 40
No. 1050 Handled	"	80
Shouldered, assorted, 1 to 4,	per gro.	$1 20
Patent asst'd, 1 to 4	"	85

Harness.

Common	"	95
Patent	"	90

Peg.

Shouldered	"	1 20
Patent	"	60

Scratch.

No 1 handled	"	4 80
No. 15, socket handled	per doz.	1 25
No. 7 Stanley		1 80

Sewing.

Common	per gro.	90
Patent	"	90

AXES.

Boy's Handled.
Lippincott, 3 lb ..... per doz. $6 00
Falls City ..... " 6 00
Broad.
Plumbs, West, Pat 33⅓%
" Can. Pat 40%
" Firemen's (handled) ..... per doz $1, 75
Plumbs, Miners' (handled) " 6 75
Single Bitted (handled)
Gladiator . 3 to 4 lbs , per doz $11 00
Flint Edge " " " 9 25
Standard .. " " " 9 25
Elec Chopper, Forest Clipper 10 50
Perfect Premier " " 10 00
Crown " " 7 00
Single Bitted (without handles)
Gladiator ... 3 to 4 lbs. per doz. $8 50
Flint Edge. " " 7 00
Standard ... " " 7 00
Electric Chopper" " 8 25
Perfect ..... " " 7 75
Crown ..... " " 5 25
Double Bitted (without handles).
Gladiator ... 3 to 4 lbs. per doz. 11 50
Flint Edge. " " 9 75
Perfect ..... " " 11 00
The above prices on axes of 3 to 4 lbs. are the base prices.
3½ to 4½ lbs advance 25c
4 to 5 lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

BAGS, PAPER NAIL.

Pounds	10	16	20	25
Per 1,000	$2.50	3.75	4.50	5.00

BALANCES, SPRING.

Frary's 40%
Pelouze 20%

BARS, CROW.

Pinch or Wedge Point .. per cwt. $3 75

BASKETS.

Clothes.

Small Willow	per doz.	$7 00
Medium "	"	8 75
Large "	"	10 50
Galvanized Iron.	½ bu. 1 bu. 1½ bu.	
Per doz	$4 75 6 50 8 00	

BEATERS.

	Per doz.
Carpet.	
No. 10 Coppered Spring Wire	$0 90
No. 12 Spring Wire	1 10
No. 10 Preston	1 10
Egg.	Per doz.
No. 50 Imp. Dover	$0 75
No. 102 " " tinned	85
No. 150 " " hotel	1 40
No. 10 Heavy hotel tinned	2 10
No. 13 " " "	3 30
No. 15 " " "	3 60
No. 18 " " "	4 50

BELLOWS.

Blacksmiths' 65%
Hand.
8-inch ..... per doz. $8 50
10-inch ..... " 10 50
Moulders'.
12-inch ..... " 12 50

BELLS.

Call.
3-inch Nickeled Rotary Bell, Bronzed base ..... per doz. $5 00
Cow.
High Grade 60%
Kentucky ..... 65&10%
Door. Per doz.
New Departure Automatic ... $6 00
Rotary.
3 -in. Old Copper Bell 4 00
3 -in. Old Copper Bell, fancy .. 6 00
3 -in. Nickeled Steel Bell 4 50
3½-in. Nickeled Steel Bell 5 00
Hand.
Hand Bells, polished ..... 50&5%
White Metal 40%
Nickel Plated 30%
Swiss ..... 40&33⅓%
Silver Chime 33⅓%
Miscellaneous.
Church and School, steel alloy .. 50%
Farm, lbs 40 50 75 100
Each $1.25 1.60 2.35 2.85

BEVELS, TEE

Stanley's, rosewood handle, new list 25%
Stanley's iron handle 25%

BINDING, OILCLOTH.

Zinc 80%
Brass ..... 70&10%
Brass plated ..... 75&5%

BITS.

Auger.
Extra Double Spur ..... 70&10%
Ford's Car and Machine .... 40&10%
Triumph ..... 50&5%
Ford's Ship ..... 40&10%
Irwin 50%
Russell Jenning's ..... 25&10%
Clark's Expansive 60%
Steer's " Small list, $22.00 .. 25%
" " Large " $26.00 .. 25%
Irwin Car 45%
Ford's Ship Auger pattern Car ..... 40&10%
Center ..... 40&10%
Countersink.
No. 18 Wheeler's ..... per doz. $1 25
No. 20 " " " 1 75
American Snail head .. " 75
" Rose " .. " 90
" Flat ..... " 75
Mayhew's Flat ..... " 1 25
" Snail ..... " 1 25
Dowell
New Jennings ..... 40&10%
Gimlet.
Standard Double Cut 60%
German Pattern ..... per doz. $0 60
German ..... " 65
Gouge ..... " 80
Spoon ..... " 80
Countersink ..... " 1 00
Reamer.
Jenning's Square ..... " 2 50
Standard Square ..... " 75
German Octagon ..... " 75
Screw Driver.
No. 7 Common ..... " 50
No. 1 Triumph ..... " 1 25
No. 2 " ..... " 1 —
No. 340 Shepardson's. " —
No. 1 Smith's ..... " — —

BLACKING, STOVE. (See Polish).

BLADES, SAW.

Butchers'.
Standard, ¾ & 1¼-in.....40%
Clock Spring.....40%
Star.....15%
Coil.....each, $1 50

Hack.
Disston's.....25&5%
Flexible.....33⅓&5%
Star.....20&5%

Wood.
Jackson's.....per doz. $2 25
Disston's—No. 6, 16, 26 & 045.. 4 25
Triumph..... 3 50
Forest Clipper..... 3 00

BLOCKS.

Snatch.
Wooden.....60&10%
Steel.....50%

Tackle.
Iron Strapped.....70%
Com. Steel.....60%

BOARDS. (New List)

Stove.....50&10%

Wash.
Globe, single.....per doz. $2 50
Globe, double..... " 3 35
Peace Maker..... " 3 00
Crystal Glass..... " 4 00
Brass King..... " 4 00
Nickel Plate..... " 4 15

BOBS, PLUMB.

Carpenters'.
No. 2, iron.....per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 1 80
No. 3, lead..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated.. " 1 10
No. N30, nickel plat'd. " 1 30
No. N31. " " " 1 85

BOLTS.

Carriage, Machine, etc.
Carriage, ⅜x6 and sizes smaller and shorter.....70&10%
Carriage, sizes larger and longer than ⅜x6.....60&5%
Machine, ⅜x4 add sizes smaller and shorter.....70&10%
Machine, sizes larger and longer than ⅜x⅜x4.....60&5%
Elevator.....50-10&5%
Plow.....60&10%
Stove .....80&10%
Tire.....75%
Wagon Box Strap.....70%

Mortis, Door.
Gem, iron.....60%
Gem, bronze plated.....20%

Barrel.
Cast.....60%
Wrought.....
Wrought, bronzed.....50%

Flush.
Wrought.....56&10%

Spring.
Wrought.....
Wrought, heavy.....

Square.
Cast.....50&10%
Wrought.....

BORERS.

Angular.
Miller's Falls.....per doz. $13 00

Bung.
Doz.
Enterprise Mfg. Co 's No 1... $14 00
" " " No 2.. 18 50

BOXES

Mail, No..... 1 2 10
Per doz.....$3.50 5.00 17.50

Miter.
New Langdon.....15&5%
Stanley's.....30%
Seavey's.....each, $1 50

BRACES.

Barber's ..... 50&10&10@50&10&15%
Fray's Genuine Spofford's.....60%
" Nos. 66 to 146.....50%
" No. 0108..... $3 50
" No. 08..... 2 75
" No. 010..... 2 85

BRACKETS.

Hay-Rack.
Wenzelmann's No. 1, per doz. $9 00
" No. 2, " 9 60

Shelf.
Cast Iron, bronzed.....50-10&5%
Clover Wrought Steel.....70&10%
Clover Folding 70%

BROILERS.

Wire.....70%
No. Cwron, Self-basting, 80dos .. $2 50

BUCKETS.

Pump, Rubber.
Wychoff.....per gro. $4 75
Cooper..... " 4 75
Champion..... " 7 50
Victor..... " 9 25
Star..... " 5 00
IXL..... " 6 75

Well.
Galv'd Qts..... 10 12 14
Per doz.....$2.90 $3.25 $3.40
Wooden, top ear, plain, per doz. 4 00
" " swivel, " 5 10

BUCKS, SAW.

Folding.....per doz. $2 10

BURRS, RIVETING.

Copper Burrs only.....30%
Tinners' Iron Burrs only.....65&5%

BUTTS.

Cast Iron.....70&5%.
Wrought Brass (New List).....40%
Wrought Steel, Bright.
Wrought Steel, Japanned.
Nos. 731 and - .....70&10%

CALIPERS.

Double.....65&5%
Inside and Outside.....65&5%
Wing.....70%

CALKS.

Logger's Boot.
(Lufkin R. Co.'s), per M..... $3 75

Toe.
Shoenberger.....per lb 5 c
Bessemer..... " 4½c
American..... " 7½c
Swedes..... " 8½c

CANS.

Cheese Factory.
Ontario Pattern.
Gallons..... 20 30 40
Each..... $4.25 $5.00 $6.25

Milk.
Holstein.
Nos..... 300 301 302
Gals..... 5 8 10
Per doz.....$26.00 $27.00 $29.00

Chicago Pattern.
Nos..... 105 108 110
Per doz.....$19.00 $21.50 $23.00

Iowa Pattern.
Nos..... 408 410
Per doz..... $23.50 $24.50

New Elgin Pattern.
Nos 705 708 710
Per doz.....$25.00 $27.00 $28.00

Burn Pattern
Nos..... 700 701
Gals..... 8 10
Price..... $2.40 $2.65

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

Hay.
Diamond, Regular.....each, $3 85
Diamond, Sling..... " 6 50
Myers' Imperial ..... " 3 85
Myers' Clover Leaf..... " 4 00

CARTRIDGES.

See Ammunition.

CASTERS.

Standard—Ball Bearing.....50&10%
Bed.....60&5%
Common Plate.
Brass Wheel.....60&10%
Iron and porcelain wheels, new list.....60&5%
Philadelphia Plate, new list.....70%
Martin's.....60%
Payson's.....75&10%

CATCHERS, GRASS.

Carroll's, No. C.....per doz. $4 25
Wildermuth's,.
Nos..... 1 2 3
Per doz.....$5.60 $5.75 $6.25
Nos..... 4 5 6
Per doz.....$6.75 $9.50 $10.00

CHAIN AND CHAINS.

Breast Chains.
Doubleslack.....doz. pairs, $5 75
With Covert Snaps. " 5 00
With Slide..... " 3 25
Without Slide..... " 2 85

Bright Ox Chains.
⅜-in. $7.25; ½-in. $5.45 per 100 lbs.

Cable Coil Chain.
Inch..... 5/16 ½ 7/16 ⅝
Per 100 lbs.$10.80 $8.00 $7.00 $6.20
Inch..... 7/16 ½ ⅝ ¾
Per 100 lbs.$6.00 $5.90 $5.75 $5.65
Inch..... ¾ 1 1¼
Per 100 lbs.....$5.55 $5.55 $5.65

Cable Log Chain.
Advance 25c per 100 lb. on Cable Coil.

Cow Tie Chains.
American, 2 toggle.....50&5%
" toggle and snap...50&5%
" open and closed ring.....50&5%

Halter Chains.
American, new list.....33⅓%
German.....60%
Niagara, new list 40%
Brown's, " 40%

Picture Chains.
Light Brass, 3 ft.....per doz. $0 65
Heavy Brass, 3 ft .... " 1 00

Pump Chain
Galvanized, per 100 lbs.....$5 50

Safety Chain.
Brass.....60%

Special Steel Loading Chain.
Inch..... ½ 9/16 5/16
Per 100 lbs.....$16.00 $13.50 $12.50

Stretcher Chains.
5/16-in. $8.50; ⅜-in. $7.75 per 100 lbs.

Tie-Out Chains.
Brown's.....70&5%

Trace Chains.
Western Standard.
6½— 6-2.....per pair 30c
6½— 8-2..... " 34c
6½— 8-3..... " 33c
6½—10-2..... " 38c
7 — 8-2..... " 38c
7 —10-2..... " 42c
7 —10-1..... " 48c
7 —10-0..... " 60c
Add 2c per pair for Hooks.
Add 2c " for Twist Link.

Wagon Stay Chains.
Inch..... ½ 9/16 ⅝
Per 100 lbs.....$6.50 $6.00 $5.50

CHALK, CARPENTERS'.

Blue.....per gro. 75c
Red..... " 65c
White..... " 55c
Common White School Crayon..... " 8c

CHARCOAL.

In bags..... per bag 90c

CHECKS, DOOR.

Blount.....33⅓%
Sargent's.....33⅓%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

Box.
Inches..... 10 12 14
Round per doz....$2.10 $2.25 $2.75
Flat " ... 2.85 3.60 4.20

Cold.
Good quality, ⅜ in. and larger.....per lb. .12c
Smaller size per doz.....

Socket, Framing and Firmer.
Clover .....75&10%

Tanged, Firmer.
With handles.....30&5%

Choppers, See *Cutters, Meat.*

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers.....per doz. $6 25
Yankee, for Yankee Screw Drivers..... 5 00

CHURNS.

Anti-Bent Wood,
Gal..... 5 7 10
Each.....$3.90 $4.60 $4.85
Belle, Barrel.....65&7½%
Common Dash, Gal. 4 5 6
Per doz..... $7.75 $8.50 $10.50
Union, Gal..... 5 7 10
Each.....$3.65 $3.90 $4.75

CLAMPS.

Adjustable.
Martin's.....30%

Carpenters'.
Steel Bar.....25%

Hose.
Sherman's, brass, ½-in., per doz.. 42c
Double, brass, ½-in., " 90c

Saw Filers.
Disston's list, $30.00.....30%
Stearns', No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's, No. 1, $6.00; No. 3 $7.50.

CLAWS, TACK.

Cast, wood hdle..... per doz.45@60c
Forged steel, wood hdle " $0.80
Solid steel..... " 1 00
Giant..... " 50

CLEANERS.

Drain.
Iwan's Adjustable.....55%
Iwan's Stationary.....40&5%

Pot.
Wire.....per doz. $0 55

Side-Walk.
Steel.....per doz. $3 25
XLCR .....65&5%

CLEAVERS

Family.
Griffin, Inch..... 6 7 8
Per doz.....$5.50 $5.75 $6.25
Royal.....per doz. 2 25

Butchers.
Plumbs.....25%

CLEVISES

Malleable .....5½c lb.

CLIPPERS.

Bolt.....?.....$1.90@4.75

CLIPS.

Axle.....65&5%

Damper.
Standard.....per doz. 65c
Troy..... " 38c

Hame..... " 17

CLOTH.

Emery.
Star.....50%
B. & A.....50%

Hardware Wire—full rolls (100 ft.)
2 to 3 incl., Galv.—in full roll... 2 75
4 and 5..... " .. 3 00
6..... " .. 3 25
7 and 8..... " .. 3 75

Screen Wire.
12 mesh, painted, per 100 sq. ft.. 1 35

COCKS AND FAUCETS.

Compression Plain Bibbs...60, 10&5%
Lever Bibb Cocks.....60, 10&5%
Compression Hose Bibbs ..50—10&5%
Telegraph Faucets (new list)..50—5%
Racking Cocks (new list)...60, 10&5%
Compression Lock C'ks(new list).70%
Andrew's Brass Faucets.....70%
Angle Plug Faucets, per doz....$0 85
Milk Can Faucets, per doz..$2.60-4.20
Petroleum Faucets .....75&5%

COLLARS, STOVE PIPE.

Inches..... 5 6 7
Plain Tin..per gro.$1.90 $2.40 $3.50
Japanned Tin " 3.00 3.00 4.25
Lacquered Brass" 3.00 5.50 4.25

COMBS, CURRY.

Nos... 000 11 15 39 89 108
Per Doz..$.37 .60 1.90 .90 1.15 .80
Nos... 299 320 390 532 620 1400
Per Doz.$1.05 .85 1.35 1.20 .75 1.40

COMPASSES.

Carpenters'.....60—10—10%
Pencil—Faber's.....per doz. $1.00

COPPER—See Metals.

COPPERS.

Soldering.
1 lb.....per lb 30c
1½ lb.....31c 2 lb... " 29c
3 lb and larger..... " 26c

CORD.

Picture
White Wire (new list) .....85&10%

Sash.
Monarch Braided Flax...per lb
Silver Lake. white. 7-32 in. "
Silver Lake, white, 8-32 in. "
Keystone.....8-32 in. " 29c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....40&10%
Williamson's Forged Worm.....50%

COTTERS, SPRING.

All sizes—new list.....90&30%

COUPLINGS, HOSE.

Brass.....per doz. $
Brass Plated..... " 85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine....per doz.$22 75

CRAYONS—See Chalk.

CROW BARS.

Inch or Wedge Point.....per lb 3½c

CUTTERS.

Glass.
Red Devil.....45%
Smith & Hemenway Co.....50%
Woodward.....40%
Meat.
Enterprise, Nos. 5, 10, 12, 22, 32 and 42.....25%
No. 202, list, $1.50 ea.....40&7½%
Pipe.
Stanwoods. No.... 1 2 3
Each.....$0.85 $1.50 $4.00
Slaw and Crout.
3-knife Crout.....per doz. $9 75
1-knife Slaw..... " 1 65
2-knife Slaw..... " 2 25
Washer..... " 7 75

DAMPERS, STOVE PIPE.

Jewel.....50&10%
American.....50%

DIES AND STOCKS.

Discount.....40%
King's, Little Giant.....33⅓%

DIGGERS.

Post Hole.
Acme.....per doz. $9 25
Atlas..... " 9 00
Eureka..... " 7 50
Hercules..... " 10 25
Iwan's Split Handle.. " 7 50
Iwan's Perfection.... " 9 00
Iwan's Hercules pattern " 10 00
Ryan's..... " 17 00
See also Augers—Post Hole.
Dividers, Wing.....65&10%

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel, painted...per doz. $7 93
1⅛ in. 4-panel, painted... " 9 50
1⅛ in. 3-panel, natural pine, fancy..... " 12 40

DOOR HANGERS—See Hangers.

DRILLS.

Bit Stock.....60&10%
Blacksmith's Twist.....60%
Breast.
Fray's No. 9.....each, $1 75
Millers Falls No. 12..... " 2 10
Hand.
Goodell's Automatic.
Nos..... 01 03 3 20
Per doz.. $7.75 $12 50 $12.50 $11.00
Goodell's Single Gear, per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
Reciprocating.
Goodell's.....per doz. 16 50
Bit Stock.
Standard List..60&5%@60%@10

DRIVERS, SCREW.

Standard.....65&10%
Lock Ferrule.....60%
Champion.....40&10%
Champion Pattern.....70%
Clark's Interchangeable.....30%
Edison.....60%
Reed's Lightning.....45&5%
Goodell's Spiral.....50, 10, 5&2½%
Yankee Ratchet 50%
" " Spiral.....50&10%
Smith & Hemenway Co.....40&5%

EAVES TROUGH, GALVANIZED.

Terms, 2% for cash. Factory shipments generally delivered.

See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

Adjustable Stove.
Inches..... 5 6 7
Smooth, per doz...$0.75 $0.85 $1.20
Plan'd, " 1.80 2.00 2.65
Corrugated Conductor.
Discount.....75&10%
Corrugated Stove.
Inches..... 5 6 7
Smooth, per doz..$0.85 $1.00 $1.50
Pol'd, " .. 1.40 1.65 2.25
Plan'd, " .. 2.15 2.65 3.40
Four-Piece Stove.
Inches..... 5 6 7
Smooth, per doz..$0.60 $0.65 $0.95
Planished, " .. 1.40 1.70 2.30

EMERY CLOTH—See Cloth.

EMERY TURKISH.

Size .....5-lb. pkgs. ½ kegs. kegs.
No 60 to 150, per lb.. 6c 4c 4c
Flour..... " ... 5c 3c 3c

ENAMEL, IRON.

Nubian, ½-pt. cans.....per doz. 1 65
Peerless..... 1 25

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

Bright Wire Screw—See Goods, B. W.
Drifting Pick.....60, 10&5%
Hooks and—
Brass.....50&10%
Iron.....70%

FASTENERS, STORM SASH.

Schroeder's.....per doz. $0.85
Sensible..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Delta.....70%
Kearney & Foot.....75&10%

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior.....per doz. $4 75
Whisson's Imp..... " 5 25

FORKS.

These goods are sold net this year.
Barley.
Steel New List.....65&10%
Wood, 4-tines, per doz.....$5 00
Coal, Coke, Cottonseed.....30%
Hay.
2-tine.....60%
3 " .....60&5%
4 " .....60&10%
Digging.....65&5%
Scoop.....30%
Header.
3-tine.....60&5%
4 " .....60&5%
Manure.
4-tine 60%
Ore.....40%
Spading.

FRAMES.

Hack Saw.
Union.....per doz. $5 75
Jenning's adj..... " 7 50
Cast..... " 2 50

FREEZERS, ICE CREAM.

Arctic.
Qts..... 1 2 3 4 6
Each...$1.10 1.30 1.50 1.80 2.30
Qts..... 8 10 12 15
Each.....$2.95 3.80 4.50 5.20
White Mountain.
20 qt., New Platform....each, $19 10
25 qt., " " " 22 60
25 qt., Sampson Power, " 43 50
40 qt., " " " 58 25
Ideal..... 3 25

GAUGES.

Butt and Rabbet.
Cream Pail.
Fairmont.....per doz. $3 75
Marking, Mortise, etc.....
.....50&10%
Saw.
Wire.
Disston's.....25%

GIMLETS.

Discount.....35@40%

GLASS, WINDOW.

Single.....90&20%
Double.....90&25%

GLASSES, LEVEL.

GLUE.

Bulk.
B Amber.....per lb. 12 c
A White..... " 15 c
H. S. Amber..... " 16½c
Liquid.
Army & Navy.....40%
Le Page's—
List "A".....37½%
List "B".....33⅓%
List "C".....25%

GOODS.

Bright Wire.....90%

GREASE, AXLE.

Wood Boxes.
Diamond.....per gro. $5 50
Frazer's..... 9 50
Hub Lightning..... 5 25
Paragon..... 6 75
Wood Pails.
Frazer's, 15 lb. 80c; 25 lb. $1.30 each.
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
Tin Cans.
Chamellene Graphite.
1 lb. per gross.....$9 50
3 lb. per gross.....25 00
5 lb. per gross.....37 00

GRIDDLES.

Soapstone.....33⅓%

GRINDSTONES.

Family.
Inches..... 7 8 9
Per doz.....$8.25 9.00 10.50
Loose.
Per ton.....$20 00@$21 00
Mounted.
Ball Bearing..... 1 2 3
Each.....$3.15 3.00 2.85
Common Bearing 1 2 3
Each.....$3.00 2.80 2.65

GUN WADS
(See Ammunition.)

HAFTS, AWL.

Brad.
Common.....per doz. $0 19
Peg.
Common..... " 22
Patent, plain top..... " 47
Patent, leather top... " 52
Sewing.
Common..... " 22
Patent..... " 52

HALTERS.

Jute Rope.....per doz. $1 10
Sisal Rope..... " 1 85
Web..... " 2 00
Leather, rope tie..... " 8 50
Leather, leather tie..... " 11 50

HAMMERS, HANDLED.

Blacksmiths' Hand.
Plumbs.....60&5%
Engineers'.
Plumbs.....60&5%
Farriers'.
Plumbs.....40&10%
Machinists'.
Plumbs.....60&5%
Nail.
Plumbs.....40&7½%
Quaker City.....per doz. $3 50
Cast..... " 1 15
Maydole's.....30&5%
Riveting.
Plumbs.....40&12½%
Shoe.
Cast.....per doz. $0 75
Tack.
All Iron.....per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid..... " 1 55
Magnetic..... 1 2 3
Per doz.....$0.70 .80 1.00
Magazine.. .....per doz. 4 75

HAMMERS, HEAVY.

Heavy Hammers and Sledges.
Under 5 lbs .....80&5%
5 lbs. and over.....80&10%
Masons'.
Single and Double Face.....80&5%

HANDLES.

Auger.
Common Assorted....per doz. $0 38
Peck's Adjustable.... " 2 10
Ives' Adjustable.....per set, 1 35
Axe.....60%
Chisel.
Hickory, Tanged Firmer, Assorted, 33c; Large, 38c per doz.
Hickory, Socket Firmer, Assorted, 27c; Large, 30c per doz.
Applewood, Tanged, Firmer, Assorted, 29c; Large, 38c per doz.
Applewood, Socket, Firmer, Assorted .....per doz $0 24
Coal Pick.....50&10%
Drift ng Pick.....50&10%
File, assorted, 13c; Large, 16c per doz.
Hammer.
Adze Eye.....per doz. $0 40
Blacksmiths'..... " 40c@70c
Machinists'..... " 45c@70c
Hatchet..... " 40
Hay and Manure Fork.....30%
Hoe and Rake.....30%
Plain.....per doz. $0 75
Varnished..... " 80
Screw Driver.
Assorted..... " 37
Large..... " 48
Shovel and Spade.....33⅓%

HANGERS.

Barn Door.
Nansen.....60&10%
Matchless.....70&10%
Storm King.....30%
World's Best.....50%
Wagner's Adjustable.....70&10%
Warehouse.....60%
Conductor P.
Griffin.....70&10%
Iwan's Perfection.....50%
Eave Trough.
Baker's.....per gro. $2 25
Imperial..... " 20%
Wire..... 33⅓%
Parlor Door.
Acme.....per set, $3 75
Ives' Improved..... " 2 50
Lane's Standard..... " 3 50
Lane's New Model.... " 3 10
Le Roy Noiseless..... " 4 00
Richards'.....40-10&5%

HASPS.

Hinge, Wrought.....40%
With Staples—See Staples.

HATCHETS.

Crown.....50-10&5%
Cast Claw.....per doz. $1 20@1 45
Cast Shingling.... " $0 95@1 20
Germantown.....40%
Plumbs.....33⅓&5%

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1.....per doz. $9 00
Wenzleman's No. 2..... " 9 00

HINGES.

Blind.
Clark's Gravity ... per doz. sets, 95c
Parker's.....65%
Shepherd's Noiseless, for Wood Casing.....per doz $1 05
Gate.
Clark's..... 1 2 3
Hgs & Ltch. . doz. $2.50 2.90 4.00
Hinges only... " 1.90 2.20
Latches only . " .70 .75
Knuckle.....per doz prs. $6 00
Leed's..... " sets 6 75
Superior..... " prs. 9 50
Spring.
American.....20%
Chicago.....25&5%
Columbia Dbl. Acting....40&10&5%
Gem.....25%
Ideal Detachable.....per gro. $11
Matchless.....30%
New Idea.....per gro. $8 00
Oxford.....20%
Wrought Iron
New Lists .....
McKinney
Light Strap Hinges.....60%
Heavy Strap Hinges.....65%
Light T Hinges.....55%
Heavy T Hinges.....45%
Extra Heavy T Hinges.....60%
Screw Hook and Strap.
6 to 12 in.....per 100 lbs. $3 75
14 to 20 in..... " " 3 65
22 to 36 in..... " " 3 40
Screw Hook and Eye.
½ in.....per 100 lbs. $6 75
⅝ in..... " " 7 75
¾ in..... " " 9 75

HOES

Garden .....70&10%
Grub.
Extra.....70%
Hazel.....per doz. $5 00
Ladies' and Boys'.....75%
Mortar.....75&10%
Planter's Eye.....62½%
Weed.....75&15%

HOLLOW WARE—See Ware.

HOOKS.

And Eyes.
Brass.....50&10%
Iron.....65&10%
Awning.....per gro. $1 00
Belt.
Brown's.....70&5%
Jones'.....65&5%
Bench.
See Stops, Bench.

Box.
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.30
Humason & Beckley's..per doz. $2 50
(See Goods, Bright Wire.)

Bush.
Common Axe Handle. per doz. $7 00

Chain.
Inch..... 1/4 & 5/16 3/8 7/16 1/2
Per 100...$7.60-8.10 9.75 11.50 12.60

Clothes Lines.
Japanned .....per doz 22c@24c
Galvanized..... " 40c

Coat and Hat
Cast Iron .... per gro. 72c@$1 50
Gem Wire.....70%

Conductor.
Malleable.....25%
Wrought.....20%

Corn.
Common, unpolished, per doz. $1 50
Little Giant..... " 3 25

Gate.
See Goods, Bright Wire.

Grass.
Common. Nos..... 2 3 1
Per doz.....$1.50 1.00 1.70
German.....per doz. 1 75
Little Giant..... " 2 75

Hammock.
With plate.....per doz. 50
With screw..... " 45

Lambrequin, or Drapery, per gro. .21c
Picture.....50%@50&10%
Potato and Manure.....70&12½%
Screw.
Brass.....80&5%
(See Goods, Bright Wire.)
Seat Spring.....per lb. 5½c

HOOPS, TUB.

Elastic ... per case of 2 doz.... $1 50

HOSE, GARDEN.

				Coupled, per ft.
Heron, 3 ply-¾" guar. press			55 lbs.	7¼c
Crane.. "	"	"	75 "	8½c
Falcon "	"	"	95 "	9½c
Eagle "	"	"	120 "	10½c
Condor "	"	"	150 "	11½c
High Test "	"	"	200 "	12½c

COTTON COV. RUBBER HOSE.

High Grade-¾"-guar. press.			400 lbs.	11¼
Special "	"	"	300 "	9½c
Leader "	"	"	100 "	7½c

HUSKERS.

Boss.
Nos..... B BB E 200
Per doz.....$2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro.....$5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro.....$3.50 9.00 24.50
Nos..... 60 59 64 68
Per doz.....$2.15 2.15 .85 1.45
Brinkerhoff's.
Per gro.....$14 40
Clark's.
No..... 1 63 200 400
Per doz.....$0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz.....$0.85 .50 1.25 1.25
Nos..... A AB F
Per doz.....$3.00 $4.25 $2.50

IRON.

See Metals.—First column.

IRONS.

Curling.
X.....per doz. $0 40
Y..... " 50
Z..... " 58
Jewel..... " 85
Imperial..... " 1 00
Pinking..... " 70
Plane.
Wood Bench.....20&5%
Sad.
Charcoal.....per doz.$11 00
Common, polished, per 100 lb. 4 50
Common, nickel plated, 5 25
Chinese Polishing.....per doz. 7 40
Laundry, No. 1..... " 5 75
Laundry, No. 2..... " 6 25
Mrs. Pott's,
No. 50 J, Enterprise, per set 93
No. 55 J, " " 90
No. 50 T, " " 1 00
No. 55 T, " " 96
No. 50, Bless & Drake " 93
No. 55, " " 99
Tailors' Sad.....per lb. 5½
Tailors' Geese..... " 5½
Tuyere.
Single Duck Nest.....per doz $5 25
Double Duck Nest . . " 6 25
Sutton.....each.... 2 60

JACKS.

Locomotive.....70%
Wagon.
Oliver,
Nos..... 0 00
Each.....$0.60 $0.80
Standard.
Nos..... 1 2
Each.....$0.60 1.00
Wilcox.
Nos..... 1 2 3
Each..... $0.85 1.20 2.90

KETTLES.

Brass.....15%
Cauldron.....40&5%
Copper.....per lb., 27c
Maslin.....65%
Sugar.....50%

KNIVES.

Beet Topping.
Clyde, 9-in. Scimiter Blade, doz.$3 85
California..... 3 40
Cooper's Hoop.....15%
Corn.
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's..... " 3 00
Woodford..... " 2 25
Drawing.
Standard.....70%
Adjustable.....15%
Barton's Carpenters' 10%
Folding Handle.....25&5%
Hay,
American, Sickle Edge...doz. $10 50
Canton, Sickle Edge..... " 8 25
Heath's..... " 8 00
Iwan's, Sickle Edge..... " 9 50
Iwan's, Impv'd Serrated . " 10 00
Lightn'g, Holt's Genuine. " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point.. " 8 50
Hedge.
Challenge.....per doz. $6 00
Disston's..... " 3 75
Mincing.
Common, Single..... " 40
Common, Double..... " 50
Streeter, 4-Blade..... " 1 30
Streeter, 6-Blade..... " 2 00
Putty.
Common.....per doz. $0 60@1 00
Lander'r..... " 1 40@1 75
Scraping.
Beech Handle..... 75@1 00
Lander's..... 5 25@6 00

KNOBS.

Door.
Mineral.....per doz. $0 80
Porcelain..... " 90
Jet..... " 90

LADDERS.

Common Long.
Per ft.....9c@14c
Extension.
Per ft.....14c
Step.
Common, per ft.....7½c
Common, with Shelf, add 10c.
Keystone.....15c
Triumph, per ft.....20c

LANTERNS.

Bull's Eye Police.
3 -in. Flash Light....per doz. $6 00
2¾-in. Regular..... " 4 90
3 -in. Regular..... " 5 50
Tubular.
Buhl . . . . . .net prices.

LEADERS, CATTLE.

Nos..... 1 2 3
Per doz..... $0 55 .70 2.75

LEATHER, LACE.

Cut.....33⅓%
Sides.
Ex. Quality ..... per sq. ft., 27

LEATHERS, PUMP.

Valve and Plunger.....10%

LIFTERS.

Stove Cover.
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
Alaska, Nickeled. " 5 00
Transom.
Payson's.....80%

LINES.

Chalk.
Twisted in 20-ft. hanks.
Nos.... 4 6 7 8 9
Gross...$1.50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....22c 25c 31c 35c
Mansons', in 100-ft. hanks...doz. 80c
Clothes.
60-ft. Jute.....per doz. $0 95
72-ft. Jute..... " 1 15
60-ft. Sisal..... " 1 40
72-ft. Sisal..... " 2 15
50-ft. Cotton..... " 1 15
50-ft. Braided Cotton. " 25

LINING, STOVE.

In Bricks.....per crate. 42c

MACHINES.

Boring.		Without Augers	With Augers
Angular.....per doz.		3 00	4 40
Upright..... "		2 00	4 00
Leather Riveting.			
Chicago, Pomeroy....	per doz.	$9 00	
Excelsior.....	"	2 00	
Handy.....	"	2 00	
Little Giant.....	"	3 00	
Pony, Pomeroy.....	"	7 20	
Washing.			
Winner.....per doz.		54 00	
Keystone.....	"	54 00	
U. S. Steel.....	"	60 00	
Advance, f.o.b.Chicago	"	24 50	

MAIL BOXES.

See Boxes.

MALLETS.

Carpenters'.
Fibre Head, Small....per doz. $5 00
" " Medium. " 5 75
" " Large... " 7 00
Round Hickory..... " 2 25
" Lignumvitæ... " 4 00
Square Hickory..... " 2 25
" Lignumvitæ... " 4 50
Tinners'.
Applewood..... " 1 70
Hickory..... " 1.00@1 50
Hickory Sheet Iron... " 1 50

MATS

Door
National Rigid.....50, 10&5%
Acme Steel Flexible.....33⅓%
Stove.
No. 2.....per gro. $3 25
No. 1..... " 3 50
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. 1 10
No. 2 Asbestos Toasters, with ring.....per doz. 60

MATTOCKS.

Plumbs.....65&10%
Extra.....60%

MAULS.

Iron, lbs.....	10	13	16	18
Per doz....	$4.00	4.50	5.25	5.60
Wood face, lbs.....	10	12	14	
Per doz.....	$5.00	5.50	6.00	

Wood Choppers'.
Lake Super'r & Oregon Pat. 75&10%

MEASURES.

	½ pk.	1 pk.	bu.
Galvanized, per doz.	$2.25	3.00	3.85
Japanned.. "	1.75	2.45	3.15

MICA.

First Quality.....20%
Second Quality.....25%

MILLS, COFFEE.

Enterprise.....25%
Parker.....40-12½&2½%
Arcade.....40-12½&2½%

MITRE BOXES.

See Boxes.

MOPS.

Erie.....per doz. $3 15
Handled Cotton.

Pounds.....	¾	1	1¼	2
Per dozen....	$2.00	2.35	2.65	3.25

MOWERS, LAWN.

Gladiator—B. B.			
Inches.....	16	18	20
Each.....	6.50	7.25	8.00
King Universal—B. B.			
Each.....	5.25	5.75	6.00
Inches.....	14	16	18
Big Giant.....	3.50	3.90	4.25
Little Giant.....	2.50	2.65	2.75

Philadelphia.
All Styles, except A & E, 60, 10&10%
Style A.....50&10%
Style E, High Wheel....60, 10&10%
Drexels.....40%
All Day .....Net Price

NAILS.

Cut Steel .....rates, $2 50
Cut Iron..... 2 60
Wire.
Small Lots..... $2 40
Carload Lots..... 2 35
Cement Coated..... 2 30
Horse Shoe.
Ausable.....55&5%
Capewell.....15%
Perfect.....55&5%
Putnam.....20&5%
Star.....35&5%
Clover Leaf ..... per lb., net, 10½c
Picture.
Brass Heads.....25%
Brads.....85%
Furniture.....15%

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized beforeweaving .80,10&2½%
Galvanized after weaving.....80&7½%
Cut Pieces.....65&5%

NIPPERS.

End Cutting.
Stubb's Pattern. Inches 5½ 6
Per dozen..... $4.00 4.25
End and Diagonal Cutting.
Swedish Side.....75%
Utica Drop Forge & Tool Co....60%
Hoof.
Heller's.....40&10%
V. & B.....55&5%

NOZZLES.

Hose.
Genuine Gem.....per doz. $3 90
Magic..... " 3 60
Mystic..... " 3 00

NUTS, HOT PRESSED.

Square Blank.
In ¼ 5/16 ⅜ 7/16 ½ ⅝
lb 9½c 8c 6½c 5½c 5½c 5c 4½c
Square Tapped.
In. ¼ 5/16 ⅜ 7/16 ½ ⅝ ¾
lb. 12½c 10½c 8c 7½c 6½c 6½c 6c
For 5-lb. boxes add ½c per lb. to above prices.

OILERS.

Chase Pattern.
Brass and Copper.....60%
Zinc.....60%
Engineers'.
Cannon.....55%
Tin .....per doz. $2 00@$2 25
Machine.
Common.....per doz. $0 58
Copper Plated Steel... " 1 00
Malleable Iron.....60, 10&5%
Japanned.....65@75c

OPENERS.

Box.

Inches.....	10	12	14
Flat.....per doz.	$2.85	3.60	4.15
Round.... "	2.10	2.25	2.75

Can.
Delmonico .....per doz $1 30
Never Slip..... " 65
Crate.
V. & B..... " 5 75

OUTFITS, COBBLING.

Combination.....per doz. 11 00
Economy..... " 4 65
Family..... " 9 75

PADLOCKS.

Standard Wrought.....75&5%
Champion.....50%
Eureka.....40, 10&5%
Yale.....60&5%

PAILS.

Cream.
14-qt , without gauge, per doz. $2 50
20-qt., " " " 3 00
20-qt., with gauge.... " 3 50
Sap.
10-qt., Galvanized, per 100....$13 00
12-qt., " " 14 50
14-qt., " " 16 25
16-qt., " " 17 75
10-qt.,IC Tin..... " 10 25
12-qt., " .... " 11 75
14-qt., " .... " 13 00
10-qt.,IX Tin.... " 12 75
12-qt., " .... " 16 00
14-qt., " .... " 17 00
Stock.

Galv'd, qts.	14	16	18	20
Per doz.....	$3.75	4.00	4.75	5.25

Water.

Galvanized... qts.	10	12	14
Per doz.....	$1.95	2.20	2.45

Wood.
Cable, 2-Hoop.....per doz. $1 70
Cable, 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop.... " 1 60
Standard, 3-Hoop.... " 1 80

PANS

Dripping.....60&5%
Fry
Common .....75&10%
Acme 70%
Roasting.
Paxton,

Nos.....	1	2	3	4
Per doz....	$4.75	5.75	6.50	7.50
Neverburn ..	4.00	4.50	5.50	6.00

Savory, No. 200.....per doz. $8.00

PAPER.

Building.
Plain.....per 100 lbs. $1 25
Tarred..... " 1 35
Tarred Felt..... " 1 65
No. 20, Red Rosin....per roll, 40
No. 30, Red Rosin.... " 55
Sand and Emery.
Star ..... low list, 50%
B. & A.....50%
Wrapping.
Drab Fiber.....per lb. $0 00
Rag..... " 0 00

PARERS.

Apple.
Bay State.....per doz. $13 00
Turntable..... " 0 00
White Mountain..... " 5 00
Reading..... " 7 00
Potato.
Goodsell's Saratoga, 10½ in., doz. 6 50
Goodsell's Saratoga, 5 in., doz. 5 50

PICKS.

Adze Eye Ore.....70%
Drifting and Poll Picks.....70%
Plumbs, Railroad.....70%
Surface.....70%

PINCERS.

Carpenters', cast steel.

Inches.....	6	8	10	12
Per doz.....	$2.00	2.60	2.95	3.75

Blacksmiths'.....45%
Heller's.....40%

PINS.

Clothes.
Common.....per box of 5 gro $0 52
Hoyt's..... " " 31
U. S..... " " 70
Picket.
Fluted, 15-in.....per doz. $0 70
Fluted, 21-in..... " 1 60
Spiral..... " 1 90

PIPE.

Conductor.
Lead.
Full coils.....per lb. 7½c
Cut coils..... " 7½c
Stove

Acme—Inches....	5	6	7
Smooth, per jt...	8½c	9½c	10½c
Planished, "	32 c	33 c	43 c
Peerless—Smooth,	7½c	8 c	9½c
Polished.....	14½c	15½c	18 c
Planished.....	28 c	31 c	35½c
Made-up—Inches..	5	6	7
Smooth.....	7½c	8 c	9½c

7 to 6 in. Smooth Tapers, pr jt...13c
6 in. Smooth T's..... " 27c
7 to 6 in. Planished Tapers.....45c
Yale Patent Lock Pipe—Stove.

Blue Steel:	5"	6"	7"	7" to 6"
	Cents			
Battle Axe Blue...	7	7½	9½	10½
Can't Slip " ..	7½	8½	10	11
Peerless " ..	7½	8½	10	11
Duplex " ..	10	11	13	14
Yale, Rus. Fin....	15	16	17	18
Duplex Planished.	29	31	37	38
Galvano, Gal.....	15	16	17	18

If wanted made up, add per joint or grooved, 1c; riveted, 1½c. Grating made-up pipe extra.
Wrought Iron Gas Pipe.
⅛@¼-in., black.....discount, 60%
⅜@½-in., black..... " 60,10&5%
¾-in. to 6-in, black... " 70%
7-in. to 12-in., black... " 62½%
⅛@¼-in., galvanized.... " 42%
⅜@½-in., galvanized.... " 50%
¾-in. to 6-in., galvan'd " 57½%
7-in. to 12-in., galvan'd " 45%

PLANES.

Sargent Iron Bench.....60%
Stanley Iron Bench.....25&5%

PLANTERS.

Corn.
Monitor.....per doz. $7 75
Triumph..... " 6 00
Segment..... " 9 00
Potato.
Acme.....per doz. $6 25
Challenge..... " 11 00
Pingree..... " 2 25
Eureka..... " 6 25

PLATES, TIN.

See Metals in Column 1.

PLIERS.

Button's—Ins.. 4½ 6 8 10
Per doz..... $2.75 3.35 4.15 5.15
Button's Pattern.

Inches.....	4½	6	8	10
Per doz.....	$2.25	2.75	3.25	4.25

Cutting
Bernard's.....30%
Lodi.....50%
End and Diagonal Cutting
Swedish Side.....70%
Utica Drop Forge & Tool Co....50%
Fencing.
Farmers' Choice.....per doz. $8 00
Russell's..... " 8 25
Flat and Round Nose.
Bernard's.....30%
German.....65%
Lodi.....50%
Paragon.....50%
Gas.—Inches.. 7 8 10 12
Per doz..... $3.00 3.50 4.50 5.50

Tinners'.
Hollow.....40%
Solid.....each, 5½c

PLUMBS AND LEVELS

Common.....60&10&10%
Cook's.....40%
Davis' Iron.....25%
Davis' Inclinometer.....15%

POINTS

Drive Well Points.....75&5%

POKERS, STOVE.

Wr't Steel, str't or bent, per doz. $0 55
Wr't Steel, wood hand'ls " 80
Nickel Plated, coil hand'ls " 65

POKES, ANIMAL.

Cracker Jack, wr't steel, per doz. $4 50

POLISH.

Metal.
Pride of the Bar..... $1 60
Putz Cream,

Pts.....	1-6	¼	½
Per doz.	$0.80	1.10	1.65

Pts.....	1	2	3	8
Per doz..	$2.75	4.50	7.50	12.50

White Silk, half pints, per doz, $2 00
White Silk, 6-oz. cans, per doz. 1 00
Wondershine,

Pts.....	1-6	½	1	2
Per doz.	$0.70	1.35	2.25	3.00

George William Hoffman
U. S. Metal Polish Paste, 3-oz boxes, per doz, 50c; per gro 4 55
½-lb. boxes.....per doz 1 20
1-lb. boxes..... " 2 25
U. S. Liquid, 8-oz cans, per doz, $1.25.....per gro 12 00
Barkeepers' Friend Metal Polish.....per doz 1 75
.....per gro 18 00
Shoe.
M. C. D.....per doz.....36c@50c
F. C. Q..... " 40c
T M..... " .55c@$1 75
Imperial.....per gro..... 5 00
Stove.
Black Eagle, 1-lb. cans, pr gr, $15 00
Black Silk—
5-lb. pail..... $0 70
Paste, 5-oz. cans....per doz. 75
Paste, ½-lb. cans.... " 1 05
Liquid, ½-pt. cans... " 1 05
Liquid, 6-oz. cans... " 75
Steel Range Gloss.... " 1 25
Blackene, 1-lb. cans...per gro. 13 00
Blackene, 1-lb. cans...per gro. 13 00
Black Jack, ½-lb. cans. " 9 25
Dixon's Card. of Iron. " 5 75
Nickel Plate..... " 4 50

POPPERS, CORN.

Round or Square, 1-qt. per doz. $1 05
Square, 1½-qt..... " 1 15
Square, 2-qt..... " 1 35
4-qt..... " 3 75

POTS, FIRE.

Bernz.....each, $3 85
Clayton & Lambert's, each, $4 75@6 25
Gate City.....each, 6 25
Gem.....each, $6 75@8 50

POWDER.

See Ammunition.

PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co.....25%
Henis.....per doz. $1 85

PRIMERS

See Ammunition.

PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10%
Water's Improved..... " 80%

PULLERS.

Cork.
Daisy..... each, $3 10
Phœnix..... " 1 40
Quick and Easy..... " 2 70
Nail.
Giant.....per doz. 10 50
Giant Pattern..... " 6 00
Jumbo..... " 9 00
Tack—Giant..... " 40

PULLEYS.

Awning—Jap'd.....60%
Clothes Line.....50&10%
Hay Fork.
Iron Wheel, 5-in.....per doz. $1 75
Wood Wheel, 6-in.... " 1 75
Wood Wheel, 6-in., pass knot, ...per doz. 2 15
Hot House—Jap'd.....50&10%
Screw—Jap'd.....60%
Side—Jap'd.....50&10%
Sash.
Common.....per doz. $0 20
Common-Sense, 2-in.. " 20
Empire Pattern, 2-in.. " 20
Ideal..... " 20
Steel..... " 25

PUMPS.

Pitcher Spout.

Nos.....	1	2	3	4
Each.....	$1.00	1.15	1.30	1.70

Spray.
Blizzard.....per doz. $14 50
Cyclone, tin..... " 3 40
Cyclone, copper..... " 6 75
Daisy..... " 9 00
Little Giant.....each,... 2 25

PUNCHES.

Conductors'.
No 22.....per doz $2 25
Machine.....per lb 19
Saddlers'.
Common.....per doz 60c@70c
Good..... " 72c@84c

PUTTY.

In Bladders.
Strictly pure.....per 100 lbs. 2 35

RAIL.

Barn Door.
Matchless, 1-in..... 3 c
Matchless, 1½-in..... 3½c
Storm King..... 4 c
Sliding Door.
Painted steel.....per ft. 4½c
Bronzed wrought iron...per ft. 8½c

RAKES.

Coal or Wood.....per doz. $5 20
Garden.
Steel.....70%
Steel, bow.....70%
Malleable iron, heavy.....60&10%
Hay.
Wood.....$1 50@$2 00
Lawn—Wood.
XXX.....per doz. $3 00
Automatic..... " 5 25
Lawn Queen..... " 2 75
Jumbo, 36 teeth..... " 5 25

RASPS—See Files.

RAZORS.

Bo-ras-ic.....50%
Red Devil.....50%
Tree Brand.....50%

REGISTERS.

List December 5, 1904.
Black and White Japanned, Reg. and Border.....70&10%
On Face.....75&10%

RINGS.

Bull.

Copper.....	2½ in.	3in.
Per doz.....	$1 10	$1 40
Rea's Improved Self-Piercing copper, pr doz	2 00	....
Steel, per doz.....	85	95
Nickel plated.....	1 35	....

and Ringers—Hog.
Blair's Rings.....per doz. $0 58
Blair's Ringers..... " 75
Brown's Rings..... 50
Brown's Ringers..... " 80
Champion Ringers.... " 1 60
Hill's Ringers..... " 70
Hill's Ring, boxes.... " 47
Major Rings..... " 60
Perfect Ringers..... " 95
Wolverine Rings..... " 1 40
Wolverine Ringers.... " 80
Fruit Jar.
White.....per lb.....30c
Key.
Split, round.....per doz. $0 17
Split, square..... " 32
Ball, round..... " 32

RIVETS.

and Burrs.
Copper Belt.....40%
Coppered Iron.....60&10&5%
Tinners'.....60&10%
Hame.....per lb. $0 10
Slotted Clinch per doz 40c@45c
Tubular
Nos 1 and 2 assorted sizes, doz, 45c

RIVET SETS

See Sets.

ROPE.

Cotton.
¼, 5-16 in. Com on reels. .per lb. 11½c
¼, 5-16 in Com. in coils.. " 12 c
¼, 5-16 Imperial in coils.. " 21 c
Sisal.
1st Quality.....12 c
Hardware Grade, rates, per lb...10 c
Pure Manila.
1st quality.....per lb. 15½c
Hardware Grade, rates... " 14½c

RULES.

Boxwood.....50&10%
Ivory.....

SASH WEIGHTS.

See Weights.

SAWS.

Back.
Disston's.....25%
Jackson's.....25%
Butchers'.
Disston's.....30%
Circular.
Disston's.....50%
Hiles'.....50&10%
Compass.
Common.....per doz $1 35@1 60
Disston's.....%25
Cross-Cut
Disston's.....45%
Dehorning.
Disston's.....per doz. $5 75
Hack.
Disston's.....25%
Keystone.....30%
Hand and Rip.
Brown's.....30%
Disston's No. 7.....30%
Disston's Nos. 8, D8, 12, 76, 112, D100, and 120 (new list).....25%
Keystone.....30%
Enterprize, hand.....per doz. $5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50
Keyhole—Disston's.....25%
Kitchen.
Sterling.....25%
One Man.....50%
Panel
Brown's.....30%
Disston's No. 7.....30%
Disston's No. D100.....25%
Pruning.
Brown's.....25%
Disston's.....25%
Wood
Common.....per doz. $4 50
Clover Leaf..... " 6 00

SAW BUCKS—See Bucks.

SAW SETS—See Sets.

SAW TOOLS—See Tools

AW FRAMES.

Common, plain.....per doz. $1 25
Common, painted..... " 1 70

SCALES.

Counter.
Pelouze.....40&10%
Platform.
Osgood.....50%

SCOOPS.

Grain.
½-bu. "Hercules".....per doz. 13 70
1-bu. "Hercules"..... " 15 00

SCRAPERS.

Box.
Triangular.....per doz. $4 00
Cabinet.
Cast Steel.....per doz, 60c@75c
Road.

Cubic ft.	7	5	3
Without run's, ea.	$4.00	3.75	3.50
With runners, ea..	4.25	4.00	3.75

SCREWS.

Bench.

Iron, in.....	1	1½	1½
	$3.50	4.00	4.75

Wood, white maple...per doz. $3 50
Hand—Wood.....10%
Hand Rail.....80&10%
Jack.....70&10&5%
Lag or Coach—all sizes, gimlet pointed.....75&5%
Saw—Centennial

Nos ..	1	2	3	4	5	6
Per doz.	18c	20c	26c	30c	23c	25c

Wood.
F. H. Bright.....87½&5%
R H Blued.....85%
F. H. Jap'd.....82½%
F. H. Brass.....85%
R. H. Brass.....80%
R. H. Nickel Plated.....75-10%

SCYTHES.

Be Ve Be, grass.....per doz. $8 50
Clipper, grass..... " 8 00
Clover Leaf Dutchman. " 8 00
Honest Dutchman..... " 8 00
Be Ve Be..... " 8 00

SHAVING SETS.

Smith & Hemenway.....60%

SETS.

Nail.
Round, common.....per doz. $0 33
Square, common..... " 42
Octagon, common.... " 33
No. 5, square..... " 75
Cup point, knurled... " 75

Rivet.
Farmers'.....per doz. $1 20
Tinners'.....50&10%

Saw.
Aiken's Pattern.....per doz $3 50
Common Lever..... " 1 20
Disston's Monarch.... " 6 50
Disston's X Cut ..... " 12 00
German..... " 1 05
Morrill's Old Style.... " 5 00
Morrill's Pattern..... " 3 25
Leach's..... " 80
Nash's Hand..... " 3 15
Nash's X Cut..... " 4 20
Stillman's Lever..... " 1 30
Stillman's X Cut..... " 2 50

SHARPENERS, SKATE.

Diamond..... per doz $1 60
Smith & Hemenway 20%

SHAVES, SPOKE

Iron.....per doz $1 10@1 85
Wood ..... " 2 75@4 75
Bailey's .....50&5%
Goodell's 15%

SHEARS

Pruning
Buckeye, No. 1.....per doz $5 75
Buckeye, No. 2..... " 7 40
California Pat., 9-in.. " 3 20
Cailfornia Pat., 10-in.. " 4 00
Draw Cut, No. 3..... " 13 75
Draw Cut, No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 2.10 2.90 2.80
Star.....per doz $4 00

Sheep—No BBA.
Inches..... 6 6½ 7
Reg. Grip.....$11.25 11.50 12.00
Nar. Grip.,doz.... 11.00 11.25 12.25

Tinners'—See Snips.

SHEAVES, SLIDING DOOR.

Common.
Inches..... 3 4 5
Per set..... $0.34 .42 .70

Hatfield's.
Per set..... $0.75 1.00 1.00

SHELLS—See Ammunition.

SHELLERS, CORN.

Union.....per doz. $6 75

SHIELDS.

Expansion Bolt Shields.....50&10%

SHOES.

Conductor.....60&10%

SHOE POLISH—See Polish.

SHOT—See Ammunition.

SHOVELS AND SPADES.

Coal.
No 2 Woodford.....per doz. $5 50
No. 182..... " 6 00
Ames' new list .....Discount, 12½%

Per doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye.... " " " 10 00
Mohawk.... " " " 9 00

Drain.
Iwan's Perfection.....50%

Railroad, etc.
Black Diamond.....per doz. $1 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames, new list .....Discount, 12½%

Snow.
Per doz.....$1.65@$9.00

Alaska Steel.
D Handle.....per doz. $3 50
Long Handle..... " 3 00

SINKS.

Cast Iron.
Painted.....50&10%
Enameled, White.....50&10%

Wrought Steel.
Painted, new list.....40-10&5%

SLEDGES—See Hammers.

SNAPS, HARNESS.

Champion.....33⅓%
German Pattern.....30&5%
Judd's Pattern.....50%

SNATHS.

Double Ring, Bush.....per doz. $6 00
Patent Loop, Bush..... " 5 75
Patent Loop, Grass..... " 5 50

SNIPS, TINNERS'.

Clover Leaf.....40&10%
National.....40&10%

SOLDER—See Metals.

SPRINGS, DOOR.

Perfect.
Nos..... 1 2 3 4
Per doz.....30c 35c 40c 54c

Reliance.
Per doz ... light, $1.25; heavy, $2 50

Star.
Per doz . .. light, 90c; heavy, $1 35
Torrey's.....per doz. $1 35
Warner's No..... 11 13
Per doz..... 75c $1 35

SQUARES.

Steel and Iron.....70&10%
(Add for bluing, $2.50 per doz., net.)
Mitre.
Try.
Try and Bevel.
Try and Miter.
Fox's.....per doz. $5 75
Winterbottom's.....70%

SQUEEZERS, LEMON.

Common Wood.....per doz. $0 70
Porcelain Lined, Wood.. " 1 25
Boss, malleable iron.... " 1 20
Iron Frame, porc'n bowl " 1 90
Iron Frame, glass bowl . " 2 35
Little Giant, tin'd iron . " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated ... " 4 50

STAPLES

Blind.
Barbed.....per lb . . .9½@9¾c
Butter Tub..... " .....8 @8½c
Fence—less than carload.
Polished.....per 100 lbs. $2 30
Galvanized..... " 2 60
Netting.
Galvanized.....per 100 lbs. 4 00
Wrought.
Wrought Staples, Hasps and Staples, Hasps, Hooks and Staples, and Hooks and Staples.....80-10&10%
Extra heavy.....75&10%

STEELYARD.
Discount 25%.

STONES.

Axe.
Hindostan.....per lb 5¾@7 c
More Grit..... " 9½c
Washita ..... " 17 c
Emery.....60%@60&5%
Oil—Mounted.
Arkansas Hard.....per doz.$23 00
Arkansas Soft..... " 15 50
Hindostan .....per lb 6¼@6½
Oil—Unmounted.
Arkansas Hard.....per lb $2 05
Arkansas Soft ..... " 1 10
Lily White..... " 45
Queer Creek..... " 15
Ouachita..... " 38
Washita..... " 26
Sythe.
Black Diamond.....per gro. $8 00
Crescent..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille ..... " 7 00
Quinnebog..... " 5 00
Red End ..... " 3 75

STOPS, BENCH.

Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

STOPPERS, FLUE.

Common.....per doz. $0 40
Crown..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated... " 70
Kirch's..... " 90
Perfect..... " 70@85
Skinner's Common Sense " 80

STOVE PIPE—See Pipe.
STOVE BOARDS—See Boards
STOVE POLISH—See Polish.

STRAPS.

Scoop.....per doz prs., $1 85
Skate..... " " 60@70c

STRETCHERS.

Carpet.
Bullard's.....per doz. $3 90
Excelsior..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50
Wire.
N. S. Elwood's.....per doz. $6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety..... " 10 00
Star Lever..... " 6 25
Canton Tackle Block. " 9 50
Warner's ..... " 6 25

SWIVELS.

Malleable Iron.....per lb. $0 70
Wrought Steel.....per gro. 4 50

TACKS.

American Cut.....90&15%
American Wire.....85&20%
Bill Posters Cut.....90&20%
Blued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp.....90&10%
Upholsters' Cut.....90&20%
Upholsters' Wire.....90&10%
Double Pointed.....90%
Copper.....per lb. 32c
Canvas Nails.....75&5%
Clout Nails.....75&10%
Hungarian Nails.....80%

TAPES, MEASURING.

Asses' Skin.....40&10%
Bend Leather.....20%
Patent Leather.....20%
Lufkin's Steel.....25%
Lufkin's Metallic.....30%

TEE BEVELS—See Bevels.

THERMOMETERS.

Tin Case.....per doz. 80c@$1 25
Wood Back..... " $2.00@12 00
Glass..... " 12 00

TIES.

Bale.
Single Loop.....80&5%
All other kinds.....70%
Cow—See "Chains."

TOOLS, SAW.

Disston's Universal.....40%
Miniature.
Smith & Hemenway.....25%

TRAPS.

Fly.
Ballon.....per doz. $1 25
Harper's..... " 1 35
Game.
Newhouse.....40&10%
New Victor.....70&10%
Mole.
Reddick's.....per doz. $6 00
Mouse and Rat.
Wood Choker ..per doz. holes $0 13
Tin Choker..... " " 75
Delusion.....per doz. 1 15
Marty Rat..... " 6 25
Marty Rat Imitation. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 00
Hold-em, wire rat.... " 3 75

TROWELS.

Brick.
Clover Leaf.....30%
Brade's.....15&5%
Disston's.....30%
Rose's.....20%
Plasterers'.
Clover Leaf.....40%
Disston's.....25%
W. & McP.....25%

TRUCKS.

Bag.....each, $2 75
Handy..... " 1 85
Warehouse.....50&10%
No..... 1 2 3
Half Ironed..... $3.00 3.85 5.50
Full Ironed..... 3.15 4.50 6.45

TUBS, WASH

Standard, Wood Ex.
Nos..... 2 1 large
Per doz.....$5.00 6.00 7.00 9.50
Dowell.
Per doz..... 5.35 6.35 7.00 9.50
Cedar.
Per doz... . 6.10 7.10 7.90 10.80
Indurated.
Per doz..... 8.55 9.45 10.80 13.50
Galvanized.
No..... 1 2 3
Per doz.....$6.00 6.75 7.75

TWINE.

Per lb.
3-ply Cotton Wrapping 25c
4 " " " 25c
" " Extra Wrapping.....27c
4 " " " Hvy. Wrapping 25c
4 " " Wrapping on tubes....27c
3 " " " cones.....25c
4 " " " " " 25c
India Hemp, ¼-lb. balls 19c
" " ½-lb. " 18c
" " ¼-lb. " .....doz. 75c
2-ply Jute, ¼-lb. " 14c
3-ply Jute, ¼-lb. " 13c
Jute Wrapping, ½-lb. balls.....14c
Jute Wool, 1-lb. balls.....9½c
Seins.
Nos..... 9 12 15
Soft.....per lb 26½ 26 25
Med..... " 26½ 26 25
Hard..... " 27 26½ 26
Staging, ½-lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " 23c
3-p y "B" in hanks 18c
4- " "B" " 18c
3 " "A" " 27c
3 " Silver Finish, in hanks...37c
Fodder or Lath.
130 strand.....6¾c
200 strand.....—c

VISES.

Phœnix.....30%
Phœnix Oval Slide.
Inches..... 2½ 3 3½ 4½
Each..... $1.25 1.50 1.85 2.75
Parker's Parallel.....18&20%
Parker's Victor.....15%
Parker's Combination.....75%
Solid Box.....40&5%
Adams' Mechanics'.....each 2 50
Williamson's Universal.....60%

WARE.

Stove Hollow Ware.
Plain or Unground.....50%
Ground Ware.....45%
Enameled Ware.....33⅓%
Country Hollow Ware, per 100 lbs. $3 00
White Enameled Ware.
Maslin Kettles.....60&10%
Covered Ware.
Tin'd and Turn'd.....35&10%
Enameled.....45&10%
Glue Pots,
Tinned..... .....25%
Enameled.....30%
Enameled.
Cherry Blossom and Chrysolite..50%

WASH BOARDS—See Boards.

WASHERS.

Standard O G. cast iron . . .per lb. 2½c
Wrought iron in bulk, per lb :
In. ½ ⅝ ¾ ⅞ 1
9c 6½c 5c 4½c 4½c 4½c 3½c
Wrought steel in 5-lb. boxes, per lb.:
In. ½ ⅝ ¾ ⅞ 1 5c 5c 4½c
10c 7c 6c 5½c

WASHING MACHINES—
See Machines.

WEDGES.

Ax.....per doz. $0 30
Galling.....per lb. 10¾
Saw..... " 8¾

WEANERS.

Calf.
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 60

WEIGHTS.

Hitching.....per lb. 2½c
Sash—f.o.b. Chicago....pr ton, 26 50

WHEEL BARROWS.

Common Railroad.....per doz. $17 00
Heavy Railroad..... " 24 00
Panama Steel Tray.... " 39 00
Klondike Steel Tray.. " 28 00

WHEELS.

Corundum.....70&10&5%
Emery.....75&5%
Well. Inches.. 8 10 12 14
Per doz..... $2.40 3.25 4.00 6.00

WIRE.

Barbed. Painted. Galv'd
Carloads .. per 100 lbs. $2.65 $2.95
Less than car " 2.70 3.00
Brass.
In coils.....20%
In 1-lb. spools, new list.....50%
Broom—Tinned . . . 60&10&10&10%
Cable—Same price as Barbed Wire.
Copper.
In coils.....20&10%33⅓%
1-lb. spools, new list.....50&10%
Fence—Smooth.
Nos. 6 to 9, An'eal'd, pr 100 lbs. $2 30
Nos. 6 to 9, Galv'd.. " 2 60
Hair—New List.....50%
Market.
Bright, full bdles.....70&5%
Bright, broken bdles.....70%
Coppered, full bdles 70%
Coppered, broken bdles.....65&10%
Tinned, full bdles.....75&5%
Tinned, broken bdles.....65&10%
Picture—In coils . . . . 80% @80&10%
In 5-lb. spools.....per lb.....26c
Plain—Small lots..... $2 10
Car lots..... 2 05
Small spools 5c per 100 higher

WRENCHES.

Acme Standard.....60%
Alligator No. 1.....85cnet
Always Ready.....50%
Coe's Standard.....40&10&5%
Agricultural.....75&5%
Ellis Adjustable.....25%
Malleable "S".....per lb. 08c
Malleable..... " 08c
Stillson Pipe.....70%

BEMIS & CALL'S WRENCHES.

Improved Adjustable S nut.....40%
Improved Adjustable S pipe 40%
Briggs' Pattern nut.....40%
Combination Bright .....40&10%
Combination Black.....40, 10 & 5%
Steel Handle nut.....50%
Merrick Pattern nut.....50%

WRINGERS.

No. 22, Guarantee....per doz, $32 50
No. 110, Guarantee.... " 32 50
No. 110, Brighton..... " 23 50
No. 110, Bicycle..... " 31 50
No. 500, Royal..... " 32 50
No. 350, Universal..... " 28 00
No. 300, Novelty..... " 28 00
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Boiler Handles

Berger Bros. Co., Philadelphia, Pa

Bolts

Columbus Bolt Wks., Columbus, O
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Boxes—Hardware

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Brackets—Shelf

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Bertsch & Co., Cambridge City, Ind
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Robinson, Mfg. Co., J. M., Cincinnati, O

Brass and Copper

Hungerford, U. T., Brass & Copper Co., New York, N. Y

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Stuber & Kuck, Peoria, Ill

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Delphos Mfg. Co. Delphos, Ohio

Carpenters' Tools

Griffin Mfg. Co., Erie, Pa
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Pullman Mfg. Co., Rochester, N. Y.

Carriage Forgings

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Canton Mfg. Co., Canton, O
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Clothes Dryers

Martcross Co., Chicago

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Pullman Mfg. Co., Rochester, N.Y

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Berger Bros. Co., Philadelphia, Pa

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Bassett & Presley Co., Cleveland, O
Berger Mfg. Co., Canton, O
Canton Mfg. Co., Canton, O
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Clark, Quien & Morse, Peoria, Ill
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Watson Co., James, Bradley, Ill

Copper, Sheet, Plate and Roll

Bassett & Presley Co., Cleveland, O

Copper and Brass

Hungerford, U. T., Brass & Copper Co., New York, N. Y

Core Compound

Obermayer Co., S., Cincinnati, O

Corn Cribs

Denning Wire & Fence Co., Cedar Rapids, Ia

Cornices

Berger Mfg. Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Watson Co., James, Bradley, Ill

Cornice Brakes

Bertsch & Co., Cambridge City, Ind
Dries & Krump Mfg. Co., Chicago, Ill
Niagara Machine & Tool Wks., Buffalo, N. Y.
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Corrugated Iron

Sykes Steel Roofing Co., Chicago, Ill.

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Modern Improvements Mfg. Co. Brooklyn, N. Y.

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Cutlery

Droescher, S. R., New York, N. Y
Smith & Hemingway Co., New York, N.Y

Cut Offs—Rain Water

LaCrosse Steel Roof. Co., La Crosse, Wis.
Milwaukee Artistic Metal Ceiling Co., Milwaukee, Wis
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Dampers

Howes Co., S. M. Boston, Mass

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Elbows—Conductor Pipe

Canton Mfg. Co., Canton, O
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Wheeling Corrugat'g Co., Wheeling, W. Va

Elevators

Kimball Bros. Co., Council Bluffs, Ia.

Enamel—Iron

Nickel Plate Stove Polish Co., Chicago, Ill

Enameled Ware

Lalance & Grosjean Mfg. Co., Chicago, Ill
Star Enameling & Stamping Co., Pittsburgh, Pa

Fencing—Wire

Denning Wire & Fence Co., Cedar Rapids, Ia
Enterprise Foundry & Fence Co., Indianapolis, Ind.
Pittsburgh Steel Co., Pittsburgh, Pa

Files

Carver File Wks, Philadelphia, Pa
Disston, Henry & Sons, Philadelphia, Pa

Flue Stop

Kinley, J. H., Upper Sandusky, O

Forming Rolls

Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo, N. Y

Foundry Supplies

Obermayer, S. Co., Cincinnati, O
Stevens, F. B., Detroit, Mich

Furnace Cement

Connors Paint Mfg. Co., Wm., St. Louis, Mo

Furnaces—Hot Air

Boynton Furnace Co., Chicago, Ill
Forest City Foundry Co., Cleveland, O
Garner Heating Co., Lansing, Mich
Green Fdy. & Furn. Wks., Des Moines, Ia
Haynes-Langenberg Mfg. Co., St. Louis, Mo
Henry & Scheible Co., Cleveland, O
Kelsey Heating Co., Syracuse, N. Y
March-Brownback Stove Co., Pottstown, Pa
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Quaker Mfg. Co., Chicago, Ill
Ralt, Walter S. & Co., Chicago, Ill
Schwab, R. J. & Sons Co., Milwaukee, Wis
Smith, Chas. & Co., Chicago, Ill
Standard Register Co., Cleveland, O.
Stove & Range Co of Pittsburgh, Pittsburgh, Pa
Twentieth Century Heating & Ventilating Co., Akron, Ohio
Youngstown Furn. & Supply Co., Youngstown, O

Furnaces—Soldering

Clayton & Lambert Mfg. Co., Detroit, Mich
Turner Brass Works, Sycamore, Ill

Furnace Pipe and Fittings

Bassett & Presley Co., Cleveland, O
Green Fdy. & Furn. Wks., Des Moines, Ia
Meyer & Bros. Co., F., Peoria, Ill
Mueller, L. J. Furn. Co., Milwaukee, Wis

Gas Stoves

Stove & Range Co. of Pittsburgh, Pittsburgh, Pa

Generators—Acetylene

Ideal Epworth Acetylene Co., Waterloo, Iowa, & Johnstown, Penn

Grain Grader

Paxton & Gallagher Co., Omaha, Neb

Grinders

Royal Mfg. Co., Lancaster, Pa

Hangers—Door

Safety Door Hanger Co., Ashland, O

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Pullman Mfg. Co., Rochester, N.Y

Hardware Delivery Wagons

Sycamore Wagon Works, Sycamore, Ill

Hardware Jobbers

Clark, Quien & Morse, Peoria, Ill
Paxton & Gallagher Co., Omaha, Neb

Hardware Specialties

National Machine & Stamping Co. Detroit, Mich.
Paxton & Gallagher Co., Omaha, Neb
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Scholihorn Co., Wm., New Haven, Conn
Smith & Hemenway Co., New York, N. Y

Hinges

Griffin Mfg. Co., Erie, Pa
Lawson Mfg. Co., Chicago, Ill

Hollow Ware

Avery Stamping Co., Cleveland, O
Sperry, D. R. & Co., Batavia, Ill

Hones

Droescher, S. R., New York, N. Y

Horse Nails

Standard Horse Nail Co., New Brighton, Penna

Ice Cream Freezers

North Bros. Mfg. Co., Philadelphia, Pa
Sturges & Burn Mfg. Co., Chicago, Ill

Insurance

Iowa Hdw. Mutual Ins. Assn., Mason City, Iowa

Iron Enamel

Nickel Plate Stove Polish Co., Chicago, Ill

Kitchen Utensils

Avery Stamping Co. Cleveland, O
Lalance & Grosjean Mfg. Co., Chicago, Ill
National Machine & Stamping Co. Detroit, Mich

Lanterns

Berger Mfg. Co., Canton, O

Lawn Fence

Denning Wire & Fence Co., Cedar Rapids, Ia
Enterprise Foundry & Fence Co., Ind'anapolis, Ind

Lawn Mowers

Coldwell, Lawn Mower Co., Chicago, Ill., Newburg, N. Y
Philadelphia Lawn Mower Co., Philadelphia, Pa

Levels

Baker-McMillen Co., Akron, O

Lighting

Ideal Epworth Acetylene Co. Waterloo, Iowa and Johnstown, Penna

Lightning Rod

Electra Lightning Rod Co. Cresco, Ia

Mail Boxes

Blick-Williams Co.. Indianapolis, Ind

Meat Choppers

Enterprise Mfg. Co. of Pa., Philadelphia, Pa

Metal—Perforated

Harrington & King Perforating Co., Chicago, Ill

Metal Polish

Nickel Plate Stove Polish Co., Chicago, Ill

Metal Shingles

Burton, W. J. Co., Detroit, Mich
Cortright Metal Roofing Co., hicago, Ill., Philadelphia, Pa
Nat'l Sheet Metal Roofing Co., Jersey City, N. J

Miters

Whitacre, J. R. Mfg. Co., Rockford, Ill

Nails and Tacks—Copper

Hungerford, U. T., Brass & Copper Co., New York, N. Y

Nuts

Columbus Bolt Works, Columbus O

Oil Cans

Delphos Mfg. Co. Delphos, Ohio

Paints and Paint Specialties

Connors, Wm., Paint Mfg. Co., Troy, N. Y
Dixon, Jos. Crucible Co., Jersey City, N. J

Pencils

Dixon, Jos. Crucible Co., Jersey City N. J

Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Pipe—Furnace

Meyer & Bro. Co., F. Peoria, Ill

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Michigan Safety Furnace Pipe Co., The Detroit, Mich

Pliers

Schollhorn Co., Wm., New Haven, Conn

Plungers

Berger Bros. Co., Philadelphia, Pa

Polish—Metal

Nickel Plate Stove Polish Co., Chicago, Ill

Polish—Stove

Black Silk Stove Polish Works Sterling, Ill.
Nickel Plate Stove Polish Co., Chicago, Ill

Punches

Armstrong-Blum Mfg. Co., Chicago, Ill
Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works., Buffalo, N.Y
Robinson. Mfg. Co., J. M., Cincinnati, O
Schollhorn Co., Wm., New Haven, Conn

Putty—Stove

Connors, Wm. Paint Mfg. Co., Troy, N.Y

Rasps

Disston. Henry & Sons., Philadelphia, Pa
Carver File Wks., Philadelphia, Pa

Razors

Droescher S. R., New York, N. Y
Smith & Hemenway Co., New York, N.Y

Registers

Henry & Scheible Co., Cleveland, O
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Mueller, L. J., Furn.Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis
Standard Register Co., Cleveland, O

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Columbus Bolt Works, Columbus, O
Hungerford, U.T., Brass & Copper Co., New York, N. Y

Roasters

Wheeling Corrugating Co., Wheeling, W. Va

Roofers' Supplies

Auld & Conger Co., Cleveland, O

Roofing and Siding

Bassett & Pressley Co., Cleveland, O

Roofing—Iron and Steel

American Sheet & Tin Plate Co. Pittsburgh, Pa
Berger Mfg. Co., Canton, O
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Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
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La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City, N. J
Sykes Steel Roofing Co., Chicago, Ill
Wheeling Corrugating Co., Wheeling, W. Va

Roofing Cement

Auld & Conger Co., Cleveland, O
Connors Paint Co., The Wm., Troy, N.Y

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Dixon, Jos. Crucible Co., Jersey City, N.J

Rules

Lufkin Rule Co., Saginaw, Mich

Safety Thimbles

Paul, Richard, Cleveland, Ohio

Sash Balances

Pullman Mfg. Co., Rochester, N.Y

Saw Sets and Saws

Disston, Henry & Sons, Philadelphia, Pa
Smith & Hemenway Co., New York, N.Y

Screens—Perforated Metal

Harrington & King Perforating Co., Chicago, Ill

Screen Door Checks

Pullman Mfg. Co., Rochester, N. Y

Screws

Columbus Bolt Works, Columbus, O

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North Bros. Mfg. Co., Philadelphia, Pa

Seamless Tubing—Brass & Copper

Hungerford, U. T., Brass & Copper Co., New York, N. Y

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Paxton & Gallagher, Omaha, Neb

Shears

Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo, N. Y
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Sheets—Black and Galvanized

American Sheet & Tin Plate Co. Pittsburgh, Pa
Berger Mfg. Co., Canton, O
Wheeling Corrugat'g Co., Wheeling, W. Va

Sheets—Planished

American Sheet & Tin Plate Co., Pittsburgh, Pa.
Follansbee Bros., Pittsburg, Pa
Ward-Dickey Steel Co., Indiana Harbor, Ind

Sheets—Steel

American Sheet & Tin Plate Co., Pittsburgh, Pa.
Tanner & Co. Indianapolis, Ind

Sheet Metal Ornaments

Gerock Bros. Mfg. Co., St. Louis, Mo

Shelf Boxes

Green & Co., A. H., New York, N. Y

Shelf Brackets

Hessler Co., H. E., Syracuse, N. Y

Shovels

Avery Stamping Co., Cleveland, O

Siding

Milwaukee Artistic Metal Ceiling Co. Milwaukee, Wis

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Stuber & Kuck, Peoria, Ill

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Berger Mfg. Co., Canton, O
Burt Mfg. Co., Akron, O
Eller Mfg. Co. Canton, O
Sykes Steel Roofing Co., Chicago, Ill

Skylight Gearing

Sykes Steel Roofing Co., Chicago, Ill
Weiss, H. & Co., New York, N.Y

Slate Roofing

Auld & Conger Co., Cleveland, O

Squares, Machinists'

Disston, Henry & Sons, Philadelphia, Pa

Stampings—Sheet Metal

Avery Stamping Co., Cleveland, O

Statuary

Gerock Bros. Mfg. Co., St. Louis, Mo

Stoves and Ranges

Champion Steel Range Co., Cleveland, O
Clark & Co., Geo. M., Chicago, Ill
Culter & Proctor Stove Co., Peoria, Ill
Monitor Stove & Range Co., Cincinnati, O
Peninsular Stove Co., Detroit, Mich
Ringen Stove Co., St. Louis, Mo
Stove & Range Co. of Pittsburgh, Pittsburgh, Pa.

Stove Cement

Dixon, Jos. Crucible Co., Jersey City, N.J

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Stove & Range Co. of Pittsburgh Pittsburgh, Pa

Stove Mats

Stuber & Kuck, Peoria, Ill

Stove Patterns

Cleveland Castings Pattern Co., Cleveland, O
Cope Pattern, Geo. W. Wks., Detroit, Mich
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N Y
Weller Pattern Co. Quincy, Ill

Stove Pipe

Hemp & Co., St. Louis, Mo

Stove Polish

Nickle Plate Stove Polish Co., Chicago, Ill

Stove Pipe Thimbles

Stuber & Kuck, Peoria, Ill

Stove Putty

Connors Paint Mfg. Co., Wm., St. Louis, Mo

Stove Repairs

Brauer, A. G., Supply Co., St. Louis, Mo

Stove Trimmings

Cleveland Nickel Works, Cleveland, O

Sugar Kettles

Sperry, D. R. Co., Batavia,

Supplies—Foundry

Obermayer Co., S., Cincinnati, O
Stevens, F. B., Detroit, Mich

Supplies—Stove Dealers'

Brauer, A. G., Supply Co., St. Louis, Mo

Tacks

Hungerford, U. T., Brass & Copper Wks New York, N. Y

Tapes

Lufkin Rule Co., Saginaw, Mich

Technologist

Hooper, C. N. Dubuque, Iowa

Thermometers—Oven

Evans Stamping & Plating Co., Taunton, Mass

Tin—Perforated

Harrington & King Perforating Co., Chicago, Ill

Tinners' Tools

Auld & Conger Co., Cleveland, O
Berger Bros. Co., Philadelphia, Pa
Lufkin Rule Co., Saginaw, Mich
Niagara Machine & Tool Works, Buffalo, N. Y
Smith & Hemenway Co., New York N.Y

Tinplate

American Sheet & Tin Plate Co., Pittsburg, Pa
Bassett & Pressley Cleveland, O
Canton Art Metal Co., Canton, O
Eller Mfg. Co. Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Merchant & Evans Co., Philadelphia, Pa
Tanner & Co. Indianapolis, Ind
Wheeling Corrugating Co., Wheeling, W. Va

Tinware Trimmings

Berger Bros. Co., Philadelphia, Pa

Tools, Etc.

North Bros. Mfg. Co., Philadelphia, Pa
Schollhorn Co., Wm., New Haven, Conn

Tools—See Carpenters' Tools

Tools—Linemen's

Smith & Hemenway, New York, N.Y

Tool Sharpeners

Royal Mfg. Co., Lancaster, Pa

Trowels

Avery Stamping Co., Cleveland, O
Disston, H. & Sons Inc., Philadelphia, Pa
Griffin Mfg. Co., Erie, Pa

Tubing—Brass and Copper

Hungerford, U. T., Brass & Copper Co. New York, N. Y

Tubing—Heavy Tin

Dieckmann, Ferdinand, Cincinnati, O

Ventilators

Berger Mfg. Co., Canton, Ohio
Burt Mfg. Co., Akron, Ohio
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Evans Co., Philadelphia, Pa
Pullman Mfg. Co., Rochester, N. Y
Uno Ventilator Co., Lynn, Mass

Wall Register—Fittings

Meyer & Bro., Co., F. Peoria, Ill

Wagons

Sycamore Wagon Wks., Sycamore, Ill

Washers

Columbus Bolt Works., Columbus, O

Washing Machines

Brammer, H. F., Mfg. Co., Davenport, Ia
Rotary Washing Machine Co., St. Louis, Mo
White Lily Mfg. Co., Davenport, Ia & Toledo, O

Wire Goods

Denning Wire & Fence Co., Cedar Rapids
Pittsburgh Steel Co., Pittsburgh, Pa

Wants and Sales

For Paid Yearly subscribers THE AMERICAN ARTISAN will insert under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they "READ THE ADVERTISEMENT IN THE AMERICAN ARTISAN."

BUSINESS CHANCES.

PATENTS Hubert E. Peck, 623 F. St., N. W., Washington, D. C., Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for leaflet on "Rejected Patent Application."

For Sale—One well drilling machine with horse power and necessary tools. If taken immediately $100 cash will buy it. In good condition. For further particulars address Marvin Hardware Co., Oregon, Wisconsin. 12-ufn

For Sale—$3,500 stock of hardware, tinware and stoves; a good clean stock in good town in northwest Iowa; doing a good business; best of reasons for selling. Address M 15, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 11-3t

For Sale—Second-hand Moline wagon elevator, platform 6 by 12; will raise from basement to second floor; in good condition and slightly used; cost $110; price $55 f. o. b. cars Roanoke, Ill. Address Altorfer & Co., Roanoke, Ill. 11-2t

WANTED—A line of small and cheap furnaces for this climate Address George W. Schmitt Heating & Ventilating Co., Oakland, California.

FOR SALE—Full outfit and established business. Tin, furnace work, plumbing, wind mill and pumps, acetylene, etc. Good town in Northwest Missouri. More work than one man can do. High class custom at good prices. Rent low. Will sell for $300. Bargain for right man. Address M-12, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 10-3t

For Sale (Cash)—A well assorted stock of hardware and steam fittings. Will invoice about $6,000. Also two story brick store, built for hardware, with dwelling rooms on second story. This is a strictly cash business and will bear investigation. Address A. W. L. Hardware, Mt. Jackson, Virginia. 5-30

Wanted to Buy May 1st, 1908—Stock of hardware of from $3,000 to $5,000 in live business town. Prefer Wisconsin. Would rather rent building. Give full particulars in first letter. Address H-32, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 8-4t

TINNERS' TOOLS.

Wanted—To buy one set of forming rolls 36 inches long to form 10-gauge steel and lighter. Address Henry Mergens, Shakopee, Minnesota. 12-3t

For Sale—The following tinner's tools. These tools are all brand new, were bought at a sheriff's sale and will be sold at once at a discount: One 8-foot O. K. steel cornice brake, one large size Stow's burring machine, one square stake, one mandrel, one lever shear and punch, one P. S. & W. circle shears, cut 20 inches, one P. S. & W. 36-inch forming rolls, one Niagara No. 300 improved square shears, 32 inches. Address A. M. Lanyon, Waukegan, Illinois. 12-2t

$300 buys a set of tinner's tools and stock, benches, racks, etc. Located in a good room on a main street in the business part of city, that rents for $12 per month or can be moved. Address Joe Lauth, Pontiac, Illinois. 12-2t

For Sale—A set of tinner's tools, including a Keene 6-foot cornice brake. Price $125. Address E. E. Philpott, Warsaw, Indiana. 12-3t

For Sale—A set of tinner's tools, including 30" square shears at a big bargain. Address M 16, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 11-3t

$125 cash takes complete set of tinner's machine tools, most of them brand new; all in good condition; will pay buyer's car fare from Chicago. Address, for list of machines, etc., Emil Blatz, Chesterton, Ind. 11-3t

For Sale—Set of tinner's tools and machines; one 8-foot D. T. C. brake, plumbing and slater's tools, and a lot of shop stock; all in first-class condition; detailed list and prices furnished on request. Address M 19, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago.

For Sale—One set tinner's tools; will sell cheap; tools not new, but in good condition; write for list of tools and prices. Address J. H. Weckerly, South Wayne, Wis. 11-3t

For Sale Cheap—One 8-foot Eclipse gutter beader, one Miller and Hapskid 30-inch cross lock seamer, one No. 2 Niagara lever punch. Address Wolff, Kubly & Hirsig, Madison, Wis. 11-3t

For Sale—Here is the chance of a lifetime; one set tinner's tools, including brand new O. K. 8 foot steel brakes, horse and wagon, hardware stock, house and lot, my interest for only $700.00 cash. This is giving it away. Cause for sale, not enough cash to do business. Address M-10, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago 10-3t

For Sale—One Moore's double Seamer No. 2 in good condition $12.00, one 30-inch P. S. & W. sheet iron folder some worn, but in good working order $4.00, or one practically new, same size, for $8.00. Cash price. Address M. A. Benson & Co., Saranac, Michigan.

HELP WANTED.

Wanted—A good steady tinner to do both inside and outside work. Steady position. Address D. Curtis, Hooker, Oklahoma.

Wanted—A reliable cornice man, one who can lay out and estimate from plans. Steady work to a sober man who is not afraid of work. Address M 24, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 12-3t

Wanted—A hardware clerk and tinner's helper. One with some experience preferred. State experience, salary wanted and references in first letter. Address M 23, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 12-3t

Wanted—A good all around tinner who understands furnace and hot water heating; one of good sober habits; no booze fighter; a steady job to the right man. Address George H. Bruns, Lake Mills, Wis. 11-3t

Wanted—A position as tinner by a man of three years' experience and 23 years old; speaks German and English; sober and honest. Write to Reedsburg Hardware Co., Reedsburg, Wis. 11-2t

Position Wanted—In a clean, up-to-date town by a first-class plumber, tinner and furnace man; references, habits, etc., all A No. 1; wages must correspond with above; would like an interest in business later if desirable. Address P. O. Box 173, Harlan, Iowa. 11-3t

Wanted—A position with some good furnace house, by an up-to-date and thorough furnace salesman; western territory preferred; have been at the head of a good furnace business for many years and combine business experience with practical knowledge. Address M 17, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 11-3t

Wanted—First-class tinner, capable of doing a good job of roofing, tinning, furnace and general shop work; must be sober and reliable; booze fighters need not apply; man with some knowledge of plumbing preferred; state wages, single or married, age, and last place of employment. Address G. T. Mueller & Son, Columbus, Wis. 11-3t

Wanted at Once—In a small town in northern Illinois a young man to do ordinary tinwork and plumbing and clerk in store at odd times; a steady job to the right party; answer giving references and stating wages. Address M 21, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 1-3t

Wanted—By April 1st, a first-class tinner. Must be able to do furnace work, plumbing and general job work. Must be sober and steady and work for the interest of his employer. To such a man will pay good wages. State full particulars in first letter. Address Box 416, Williamsburg, Iowa. 10-3t

Wanted—A good all around tinner and plumber with some knowledge of heating; steady work the year round for a good man; state wages wanted in first letter. Address A. W. Kuhn, South Milwaukee, Wis. 11-3t

SITUATIONS WANTED.

Situation Wanted—A young tinner of three years' experience would like a position where I can finish learning the trade. Can do hot air heating and some plumbing. Am no boozer and a willing worker. Address M 22, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 12-3t

Wanted—A steady job in a good tinshop by competent sheet metal worker. Prefer inside work. Can draft patterns and lay out work. Strictly sober and trustworthy. 43 years of age. Address G. H. Schefstrom, Belding, Michigan. 12-3t

Situation Wanted—By a practical tinner and furnace man. Also have had some experience at plumbing and hot water heating. Am a young man 28 years and no boozer. Only a steady position considered. Address C. F. Bemis, 122 W. 32d St., Minneapolis, Minnesota. 12-3t

Wanted—Steady job as tinner, helper or general man in hardware store or cornice shop. State wages with full information. Best of references. Address Jack the Tinner, Gage, Oklahoma. 12-3t

Situation Wanted—By a first-class tinner. Can give the best of references. Can make good anywhere. Oklahoma preferred. Address 503 Second Ave., Ardmore, Oklohoma. 12-3t

Situation Wanted—As traveling salesman by a practical furnace man; prefers Michigan and Wisconsin; can sell either the dealer or individual, church and school communities; I would like to hear from a good company that wants a first-class man. Address M 18, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 11-2t

Wanted — A first-class tinner and plumber; one that understands farm machine work; young German married man preferred; state age, etc., in letter, and the right man can have a good job for years to come. Address Schilling Bros., State Center, Iowa. 11-3t

Wanted—A good all around tinner; one who has some knowledge of heating and plumbing; must be a steady, sober mechanic; a steady job and good wages to the right party. Address Joseph Mattes. Odebolt, Iowa. 11-3t

Situation Wanted—Young married man, 26, with five years' experience in the largest retail hardware store in the world, two years as city salesman and one year on the road, will take a traveling position, but would prefer to get in a hardware store in a small or large town where ability, industry and reliability will count; good references for all past work. Address P. O. Box No. 7, Montgomery City, Mo. 11-2t

SITUATION WANTED — Experienced tinner desires good permanent position where good services and full knowledge of general job and furnace work will be appreciated. No plumbing or steamfitting. Address stating wages and full details. Address M-14, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 10-ufn

Situation Wanted—Who is the hardware man who wants a first-class tinner and furnace workman in a town of 1,000 or 2,000 inhabitants in Northern Illinois? I am one of the good tinners. Nothing but a steady job. State your wages. Address Ira C. Gray, Monticello, Indiana. Box 317. 10-3t

Situation Wanted—By tinner. Fifteen years' experience at in and outside furnace and job work. Address C. A. Storck, 69 Walton place, Chicago, Illinois. 10-3t

SPECIAL NOTICES.

FOR SALE

Tin and furnace shop, first-class tools as good as new, 1 horse, 2 wagons, 1 O. K. Steel Brake (new). Will invoice $1,200. Reasons for selling, going out of city. Will sell for cash only. Address Lake View Tin & Furnace Co., 1871 E. 119th St. S. E., Cleveland, Ohio. 9-ufn

The Yale & Towne Mfg. Co., Stamford, Conn., using 20 18-inch "Burt" Metal Top Ventilators. Among other prominent concerns using "Burt" Ventilators are: The Florida East Coast Ry. Co., Miami, Fla., 48 24-inch; Scoville Mfg. Co., Waterbury, Conn., 10 36-inch (2nd order); Corbin Bros. Co., New Britain, Conn., 23 18-inch: The Standard Oil Co., New York City, 11 various sizes (4th order.)

As Excellent as a Yale Lock

The Yale & Towne Mfg. Co., makers of the world renown Yale Locks have purchased twenty 18 inch Burt Ventilators for use on their new building the roof of which is of "saw tooth" construction.

The ventilation of this factory is of great importance as it increases the efficiency and helps to maintain the standard of workmanship of all of the employes.

Burt Ventilators

They are the most powerful and efficient ventilators made. They are strictly high grade in workmanship, efficiency and material.

Each Burt Ventilator has a patented sliding sleeve damper, which can be adjusted to any degree by a special attachment and is held permanently without tying cord to hook, nail or post. The glass top Burt's make fine sky-lights and admit the light whether open or closed.

Send for our new 92-page catalog giving fine illustrations of mills, shops, factories, and residencies where Burt Ventilators are in successful use.

The Burt Mfg. Co., 650 Main St., Akron, Ohio.

Notice Sliding Sleeve Damper (patented). Furnished with flat wired glass, up to and including the 66-inch size. Metal Tops furnished if desired.

FOR SALE

To Hardware Merchants only—purchases limited to $3,000 in any one year—Fire Insurance policies worth one hundred cents on the dollar every day in the year, and at 40% less cost than you have been paying your Stock Companies. Isn't that a saving worth while? Think it over. If you have any doubt as to the quality of the Insurance we furnish, we can give you satisfactory references. Write for full particulars to-day.

Iowa Hardware Mutual Insurance Association

MASON CITY, IOWA

S. R. MILES, President **A. R. SALE, Secretary**

SPECIAL NOTICES.

FOR SALE

Leading Stove, Hardware, Crockery, Housefurnishing Goods, Tin and Plumbing Shop, located in Southwest Missouri, County seat, population exceeding 7,000; three railroads, and splendid farming country; established 1870. Invoice $18,000; can be reduced. Two story brick building, 37x130. Will sell or rent. Cash and part time. No trade. Reason for selling to engage in manufacturing. A snap. Write at once. Address, K-29, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-3t

WANTED.

Manufacturers of jobbers agency line for Oklahoma territory. Address "Jobber," care of THE AMERICAN ARTISAN, 69 Dearborn street, Chicago. 12-3t

WANTED.

Experienced furnace salesman to travel. Answer stating full particulars. Address K-38, care of THE AMERICAN ARTISAN, 69 Dearborn street, Chicago. 12-1t

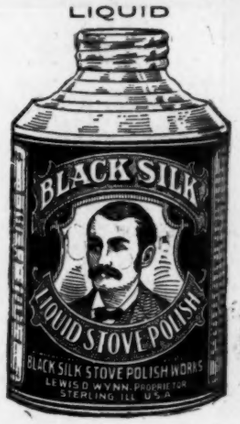
Graphite as a Lubricant—Tenth Edition

The very latest and freshest information, both scientific and practical, on the modern practice of graphite lubrication. Send for free copy 18-C.

Joseph Dixon Crucible Co. Jersey City, N. J.

LIQUID

THE POLISH THAT'S CLEAN



THE SHINE THAT STAYS

WILL NOT FREEZE

BLACK SILK STOVE POLISH

PASTE

WILL NOT RUST CANS

WILL NOT DRY OUT

STERLING ILLINOIS

THE HOME OF
BLACK SILK STOVE POLISH

SPECIAL NOTICES

Situation Wanted

As traveling salesman. Would prefer Southern Iowa or Northern Missouri. Extensive acquaintance with trade. Address K-31, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 9-2t

Wanted Salesman

To represent a well established up-to-date line of Furnaces and to sell these furnaces on commission in any of the following states: Wisconsin, Minnesota, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Indian Territory, Texas. Address in own handwriting "FURNACES," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 11-2t

SALESMAN WANTED

To carry a good line of Stove Polish as a side line. Cash commission basis. Address for full particulars, K-25, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 6-6t

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Energy is Hope

Energy is Life

Put it in Your Advertising

Persistency is Might

Persistency is Progress

Persistency is Success

Add it to Your Advertising

GREAT LITTLE BOOK FOR BU INESS MEN

Goes down to first principles; helps to success, and nearly every one can afford it at the price named here.

A little book called "As a Man Thinketh," by James Allen, is winning its way into the hearts of more business men than nearly any book going just now.

The reason for the popularity of the little book among business men seems to be that it reveals some old and tried principles in a new and practical way. In short, it shows the commercial value of those principles—how to apply them to the problems of everyday business life.

The book is not an exhaustive treatise on the much written upon subject of the power of thought. It is suggestive rather than explanatory, which probably is a further reason why business men are especially enthusiastic over it.

George S. Parker, who makes and sells the "Lucky Curve" Fountain Pen, in speaking of this book said: "As a Man Thinketh is one of the greatest little books for business men that I have ever read. I bought a great many copies of this book to give to my business friends and associates."

Heretofore "As a Man Thinketh" has been sold, but it is now being given away by The Sheldon School of Chicago. The Sheldon School teaches the Science of Salesmanship by correspondence. The success of the School is attested by the fact that 30,000 men, representing every line of business, have taken the Course.

You don't have to be actually engaged in selling goods in order to profit by the Sheldon Science. Salesmanship is a vital principle. Every man has something to sell, and the men who understand and apply the principles of scientific salesmanship, realize success in life.

The Sheldon people say they are willing to give this little book away because there is so much good Sheldon doctrine in it, and anyone who reads it usually gets right in line for the work of The Sheldon School.

However that may be, the fact remains that if you desire a copy of "As a Man Thinketh," and would also be interested in seeing some literature on the Science of Salesmanship Course, you can get the book without charge by simply sending your name and address with request, to The Sheldon School, 1273 Republic Building, Chicago.

Our Stock Comprises
SHEET BRASS
BRASS ROD
BRASS & COPPER WIRE
SHEET COPPER
BRAZED TUBING
COPPER NAILS
BRASS & COPPER WIRE CLOTH
SOLDERING COPPERS
ETC., ETC.

STAR BRAND
BRASS and COPPER
MATERIAL
TRADE MARK STAR BRAND
U. T. HUNGERFORD BRASS & COPPER COMPANY
497-505 PEARL ST., NEW YORK

Our Stock Comprises
COPPER RIVETS & BURS
BRASS & IRON CHAIN
BRASS DOOR RAIL
COPPER HAMMERS
COPPER TACKS
UPHOLSTERY NAILS
BRASS & ZINC OILERS
ETC., ETC.

STOCK SHEET, SHOWING FULL ASSORTMENT ON HAND, SENT ON REQUEST.

Adjustable
Safety Thimble

The heads are extra heavy cast iron, connected by spiral steel spring whose tension adjusts them to any thickness of floor or partition.
The in cylinders are attached to the japanned iron heads with rivets.
The Thimble is a perfect safeguard against fire from overheated stove or furnace pipes which pass through floors or partitions.
I make all sizes and extensions.

I AM NOT IN ANY TRUST
WRITE FOR PRICES

RICHARD PAUL
825-27-29 Long Ave.
Cleveland Ohio

THE KINLEY
SCOOP FLUE STOP

Has 6 inch inner disc, with a 3 inch Scoop attached to catch the soot, which makes it absolutely fire and soot proof. Made of best material, with a heavy steel spring. Outer cap 8½ in. in diameter, nicely enameled with litho picture in center, made flat so can be papered over. Packed one dozen in a heavy pasteboard box, 8½x8½x5 inches.
If you can't get it from your jobber write direct to
J. H. KINLEY
Sole Manufacturer and Patentee
UPPER SANDUSKY, OHIO

C. N. HOOPER, Dubuque, Ia.
Vitreous Enameling
TECHNOLOGIST
Designs, builds and starts new plants, improves quality and reduces the costs in those already established.

AMERICAN
SHEET AND TIN PLATE
COMPANY
FRICK BUILDING PITTSBURGH, PA.
Manufacturers of
TERNE PLATES
M. F. U. S. Eagle American Ternes Numethod
Continuous Roofing
FORMED ROOFING AND SIDING
MATERIALS

Corrugated Sheets
Crimped Sheets
Pressed Standing Seam
V-Crimped Roofing
3 V-Crimped Roofing
Plain or Self-Capping Roll Roofing
Roll and Cap Roofing
Corrugated Side Wall Flashing
Corrugated End Wall Flashing
Corrugated Ridge Roll
Corrugated V. Ridge Capping
Plain Ridge Roll
Plain V Ridge Capping
Beaded Ceiling or Siding
Weatherboard Siding
Plain Brick Siding
Rock Face Brick Siding
Rock Face Stone Siding 7" x 12"
Rock Face Stone Siding 9⅓" x 20"

Watch for advertisement relative to other Specialties—appearing next week.

Sperry's Steam
Kettles

Made from very thick metal, without Stay Bolts, joint packed in such a manner as to never need repacking. A little higher priced than some, but *they are safe and tight.*

D. R. SPERRY & CO. HOLLOW-WARE FOUNDERS BATAVIA, ILL.

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69 Dearborn Street, CHICAGO

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Stove Dealer's Supplies
Castings and Stove Repairs

Prices Are Lowest. Prompt Shipment

A. G. BRAUER SUPPLY CO., 316-318 No. 3rd St., ST. LOUIS, MO.

Cleveland Nickel Works, Cleveland, Ohio

MANUFACTURERS OF

"SUPERIOR" Improved Exhaust Tumbling Mills, Dust Arresters, Hard Iron Stars, Wrought Iron Chaplets, Plain and Tinned, Stove Rods, Furnace Rods, Chair Rods, Stove Scrapers and **all kinds of NICKEL PLATED STOVE TRIMMINGS.** Send for catalogue.

YES—YOU CAN SAVE DOLLARS

By sending me your orders for Foundry Supplies. **Stevens' Stove Plate Facings and Stevens' Genuine East India Plumbago** will give you clear and smooth face plates, and where ornamentations occur they will be well-defined.

Stevens' Polishing and Plating Compositions will do the rest. Write for catalog. Prompt Shipment.

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THE RIGHT KIND
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THE "Acme"

THE "Acme"

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when thinking of foundry supplies to think of OBERMAYER. Quality, price, reliability—all the attributes of perfect foundry supplies are expressed by one word—OBERMAYER.

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STOVE Repairs

Manufacturers' Stove Repair Co.

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Prompt Shipments. Give Us a Trial

WELLER PATTERN Co
DESIGNS and ESTIMATES FURNISHED FOR ALL KINDS OF STOVE PATTERNS
QUINCY, ILL.

PATTERNS

For Stoves and Heaters

The Cleveland Castings Pattern Co.
CLEVELAND, OHIO

The GEO. W. COPE **STOVE PATTERN WORKS** Cor. Brush & Woodbridge Streets DETROIT, MICHIGAN

PATTERNS

For Stoves and Heaters
First-Class in Wood and Iron

Vedder Pattern Works, Troy, N. Y.
Established 1835

QUINCY PATTERN Co
IRON & WOOD
STOVE PATTERNS
QUINCY, ILL.

YALE
Russia finish, pat. lock
STOVE PIPE

It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes.

Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States.

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HEMP & CO.
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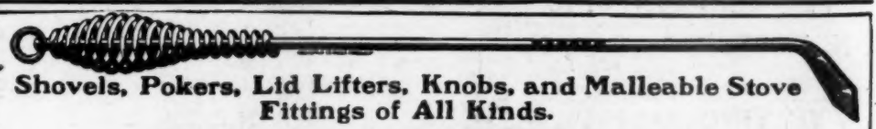
ST. LOUIS

In the event your jobber does not handle this pipe send your inquiries to us.

Alaska STOVE TRIMMINGS



Shovels, Pokers, Lid Lifters, Knobs, and Malleable Stove Fittings of All Kinds.

Troy Nickel Works, Albany, N. Y.

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¶ Beginning Jan. 1, 1908, every Cortright Shingle bears the stamp "Cortright" Reg. U. S. Pat. Off. This is done to distinguish our goods from the imitation, and prevent fraud from being practiced upon you by unscrupulous dealers.

¶ Laying Cortright Shingles is the most profitable business you can engage in. Hundreds of tinners have found this out already. We want you to know of our methods—we want you to know how we help them get business and make money.

Write to-day for particulars.

Cortright Metal Roofing Co.
PHILADELPHIA and CHICAGO

Plecker's *Corrugated* Expanding *Conductors*

Have no Cross Seams. Made of Galvanized Iron in ten-foot lengths. [redacted] Will not burst when full of ice.

CLARK, QUIEN & MORSE, PEORIA, ILL.

The Tendency Today is to Buy the Best Roofing Tin

"Reg. in U. S. M&E Pat. Off."

"Merchant's Old Method"

represents the quality of Roofing Tin in demand. There is an insistent demand for it where the best is required.

The quality never changes and it pays to use the recognized standard quality.

Write us for **Roofing Rules**—FREE.

MERCHANT & EVANS CO.
Successor to
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PHILADELPHIA

New York, Brooklyn, Baltimore — Chicago, Kansas City, Denver

Some time—some day, long after you've forgotten the slight additional cost, you'll be glad you had the good judgment to select a Keighley Lock-Joint Metal Ceiling. For your ceiling then will still be "absolutely dust-proof and air-tight." The joints will never start open—they can't.

Why not decide to-day to get the dust-proof ceiling? At least write for a copy of Catalog "D."

S. Keighley Metal Ceiling & Mfg. Co.
PITTSBURGH, PA.
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IT WILL PAY YOU to enter into Competition for the

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for the Annual Prize WINDOW Competition of The American Artisan.

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—AND CONDUCTOR PIPE FITTINGS—

WHEELING CORRUGATING CO., WHEELING, W. VA.

MADE IN ONE PIECE WITHOUT CROSS SEAM

Galvanized Steel, Galvanized Charcoal Iron, IX, Terne and Cold Rolled Copper. All ten foot lengths.

SIZES, 1½, 2, 2½, 3, 3½, 4, 5, 6, 7 INCHES

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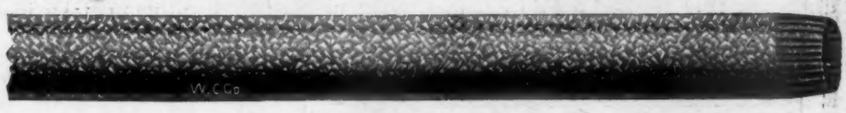

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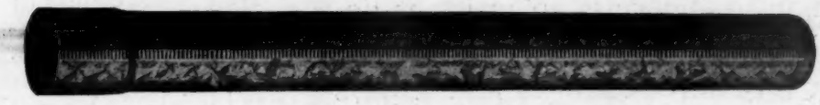
Large Stock of all our Products are Carried at the Factory and in all the Warehouses. : : : :

Prompt and Courteous Reply to Any Inquiry.

Lock Seam Tubing and Tubing ELBOWS



1, 1¼, 1½ Inches in Diameter

Galvanized After Formation

Heaviest Tin Speaking Tube on the Market

Elbows Made of One Piece of Metal

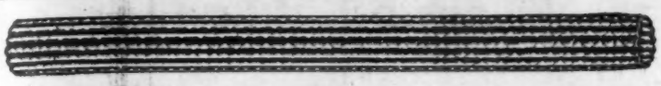
1, 1¼, 1½ Inches in Diameter

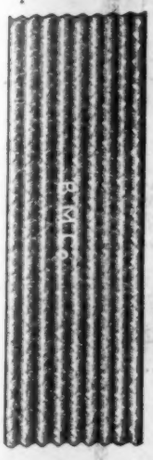
Heavy Tin—Galvanized After Formation

For Ice Box Drains, Portico Work, Speaking Tubes, Lighting Systems, Incubators.
Inquiries regarding special work solicited.

Ask for prices, stating QUANTITIES DESIRED

FERDINAND DIECKMANN, Station B, Cincinnati, Ohio

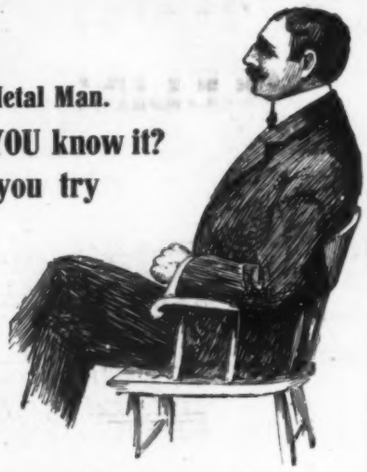




Let's get right down to business, Mr. Sheet Metal Man.

We know we can serve you right, but do YOU know it?
And how're you going to find out unless you try us and see for yourself.

We have the goods.
We know how to make them.
We have the workmen.
We have the facilities.
We have the output.
We can ship quick.
WE CAN MAKE THE PRICE.



Before placing another order, be it large or small, get our price and let us show you. Write us TODAY and get prices on anything you need.

Roofing, Siding, Ceilings, Cornices, Eave Trough, Pipe, Tin Plate, Sheets, Etc., Etc.

If you haven't our Catalog, ask for A8.

THE
BERGER MFG. CO.
CANTON, O.
Largest Sheet Metal Workers in the World

BRANCHES: New York, Philadelphia, Boston, Chicago, St. Louis, Atlanta, San Francisco, Minneapolis.

Perfection In Metal Ceilings

THE GOODS MANUFACTURED BY

FRIEDLEY-VOSHARDT CO.

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La Crosse Steel Roofing and Corrugating Co.

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MANUFACTURERS OF

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CUT OFFS
MITRES, ENDS AND DROPS
ROOFINGS AND SIDINGS
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Quick Shipments Our Specialty *Send for Catalog*

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THE MOST ORNAMENTAL AND LOW PRICED MADE

"Invisible Joint"

STEEL CEILINGS

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A TRIUMPH IN CORNICE BUILDING!

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MILWAUKEE, WIS.

IT WILL PAY YOU to enter into Competition for the

$100.00 IN GOLD

for the Annual Prize WINDOW Competition of The American Artisan.

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Shingles that last

Made from Galvanized Tin and Painted Tin
Storm, Rust and Fire Proof
Do you want to increase your business? THIS IS YOUR OPPORTUNITY. Write for catalogue samples and prices.
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A sure cure for smoky chimneys, the best for ventilation.
4" to 30"
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Sheet Metal Ornaments and Statuary
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PERFORATED METALS
OF EVERY DESCRIPTION AND FOR ALL PURPOSES
FOR SCREENS OF ALL KINDS
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TIME required in erection of metal ceilings tells what profit is made on the job. If the construction of the plate is poor, they won't fit and will require more time and care and will produce a badly appearing job, as a result.
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"Please discontinue my ad for a tinner. I have had applications from the Atlantic to the Pacific, and also received a good man through your valuable paper."

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No Better Hog Trough Made

Made of one piece in bottom with steel ends. No cast ends to be broken out and the trough crippled, but will stand the roughest usage. Made strong with one inch angle around top.

Will not leak or rust out, have steel trusses to set on and to fasten down ready for use.

Every Farmer should have one. Why not sell them?

Mr. Dealer, Ask for Sizes and Prices.

Your Orders are Wanted

MANUFACTURED BY
THE JAMES H. WATSON CO., Inc.
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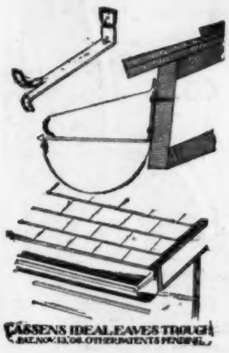
METAL CEILINGS, EAVES TROUGH, CONDUCTOR PIPE, Etc., Etc.

Tanks of Every Size and Style

Cassens' Ideal Eaves Trough



Water only Enters the Trough

The Most Modern, Practical and Perfect Eaves Trough Made

Its construction completely eliminates the faults of the old style gutter.

Write to-day for descriptive matter. Traveling Salesmen wanted to carry the IDEAL as a side line.

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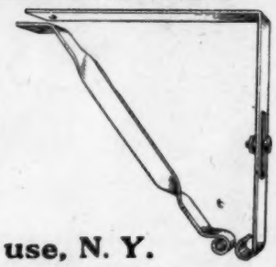
SYRACUSE STEEL SINK } **Bracket**



Light in Weight
Neat in Appearance
Stronger than Cast Iron

This bracket is detachable and much more easily placed than the ordinary cast bracket. Descriptive circulars and prices on application.

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We Have a Hardware Delivery Wagon That You Can Depend Upon

Body 20 in. from the ground, full width; regular height wheels, and yet will turn short.

EASY TO LOAD AND UNLOAD

Durability guaranteed.
Complete catalogue on request.
Mention this paper and address in full.

SYCAMORE WAGON WORKS
109 Edwards Street. SYCAMORE, ILL.

Iwans' Voleano Revolving Chimney Top

Sizes 6 to 12 Inches.

Sold by Jobbers of Hardware and Tinners' Supplies.

Notice one of its **Strong Features:** The upward sloping opening in back of hood creates a constant upward draft, no matter how depressing the atmosphere.

You need it for some of your customers' chimneys.

Send Postal for Catalogue.

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Metal Roofing and Siding.
Corrugated Sheets, painted or galvanized.
Metal Window Frames and Sash Glazed with wired glass.
Skylights.
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Price lists and estimates furnished upon request.

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It Is Acknowledged

PRICE	
3½-in.	$ 50
4 "	60
4½ "	65
5 "	75
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By the best workmen to be the only way to close the end of an eave trough as corrugations ARE PROOF against frost.

Order a Set of Tools TODAY from any Jobber or Tinners' Supply House.

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Keep Down Your Expense

No. 1 Fire Pot $6.00 Net.

By using a No. 1 or 5 Clayton & Lambert Fire Pot. You will save half the gasoline other makes require. These fire pots have stood the test of world wide service for many years and everywhere are regarded as a perfect product. They speak for themselves from the standpoint of results. Do not defer the advantages you will gain in economy and utility, but buy at once. The booklet tells you all about the Clayton & Lambert line. Write for it.

Jobbers supply at factory price, or we will ship direct if cash accompanies the order.

CLAYTON & LAMBERT MFG. CO., Detroit, Mich.

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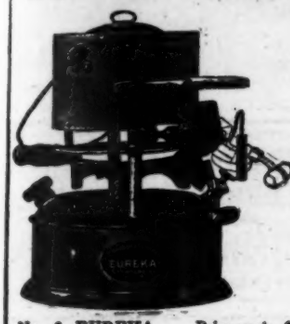

LET US PROVE IT

No. 6 EUREKA. Price each, $6.00 Net
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Jobbers sell at factory price.

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Combined Punch and Squaring Shear

(Hand Power)

This Combined Punch and Squaring Shear is designed especially for Range Manufacturers, for squaring, trimming or slitting, or for cutting rectangular or triangular holes of any size in the center of large sheets. We build a complete line of Shears, Punches and Bending Rolls, all sizes, for either hand or belt drive. Write for Catalog "F."

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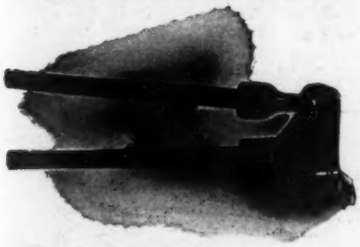

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Tinsmiths' and Plumbers' Tools. Cornice Makers' Tools. Coppersmiths' Tools Pipe Threading Machines

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Tin and Terne Plate
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No. 40

This is as fine an ear as can be made. Every piece is perfect, with fine finish, nicely tinned, same size and thickness as our malleable Star ears. No. 30 corresponds to malleable No. 3, etc. Furnished in gross boxes or in bulk to suit the purchaser. Samples mailed free upon request.

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TOOLS FOR SHEET METALS

Burritt's Roofing Double Seamers

INCLUDING

Tinners' and Roofers' Tools,
Shears, Punches, Presses and
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MADE BY

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Patent applied for

PORTABLE PUNCH No. 20

Made entirely of STEEL

Capacity ¼ inch hole in ¼ inch.
Length 38 inches, weight 16 lbs.
Write for circular and price of this and other Marvel Tools.

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TWO MORE REASONS WHY STEEL BRAKES EXCEL OTHERS WILL FOLLOW

The strength of steel being approximately three times that of iron it is clear that much heavier work can be done with the same effort on a brake so constructed.

Another quality of steel is that it will not warp like wood nor get sprung as iron will, thus assuring a straight and perfect bend always.

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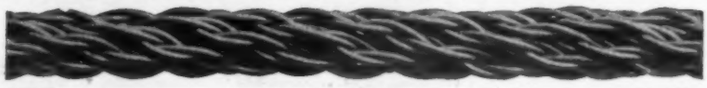

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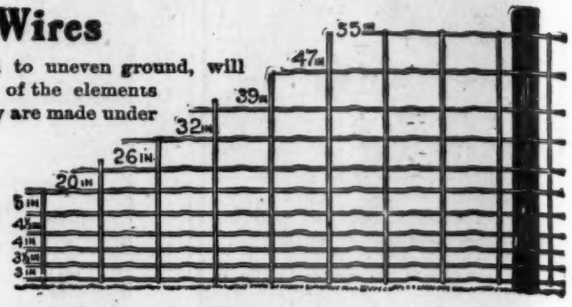
"Pittsburgh Perfect" Fences

All Galvanized Steel Wires



Are durable, strong and adjustable. They can be adjusted to uneven ground, will curb in the strongest beast and will withstand the attacks of the elements longer and surer than any other fence on the market. They are made under the same favorable conditions and as carefully as all the

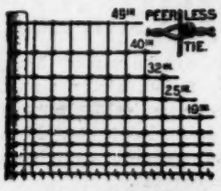
"Pittsburgh Perfect" Brands

of Wire Rods, Annealed, Bright and Galvanized Smooth Wire, Barb Wire, Twisted Cable Wire, Fence Staples, Wire Nails, Steel Hoops, Bands and Cotton Ties. Dealers can sell goods readily which are

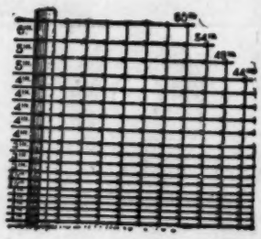
MANUFACTURED BY

The Pittsburgh Steel Co., Pittsburgh, Pa.

THE DENNING FENCE



For yard and pasture has no equal. Our Peerless Cabled Fence with barb wire in the bottom turns hogs, absolutely. We beat the world on Poultry Fence. We make perfect Barb Wire. We ship mixed cars Woven Fence, Barb Wire and Nails.



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IRON FENCES

Also ORNAMENTAL WIRE FENCES

Finest at lowest price. Guaranteed

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A Full Line of Horse Nails

Send for Catalogue, Prices & Samples.

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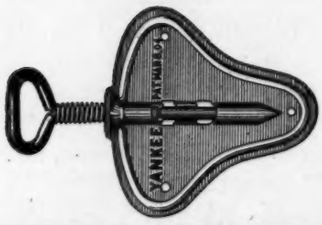

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3 inch to 8 inch

HOT AIR PIPE SIZES
6 inch to 15 inch

Easiest to Get In or Out

Best & Cheapest Damper Made

GET OUR PRICES

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SAMPLE FREE

THE WM. SCHOLLHORN CO.

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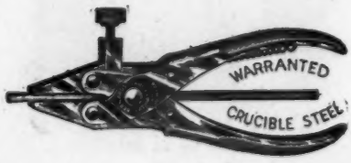

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Pliers, Nippers, Spring Belt and Ticket Punches, Bolt Clippers, Dividers and Hardware Specialties, under the "Bernard," "Paragon," "Elm City," "Lodi" and "Excelsior" Brands.

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Sanitary Dust-Pan

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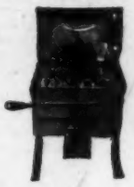

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The Easy Lawn Mower Sharpener

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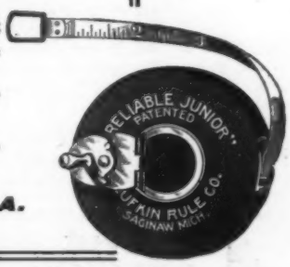
are made in every conceivable variety, to suit every purse and purpose, but all of the same superior quality.

¶ Our extensive advertising creates a demand, that every progressive dealer should be able to satisfy.

¶ It takes but a minute and a postal to ask for our catalog—it's more than worth while.



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Yours for the Asking

This new edition contains 208 pages of useful, practical information—articles on The Making of the

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giving the progressive steps in their manufacture, large number of illustrations of the works, together with TREATISES on the CARE and USE of Saws, etc.

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KEYSTONE SAW, TOOL, STEEL AND FILE WORKS
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A NEW PATTERN STANDARD LEVEL—Two Level Glasses, One Plumb Glass

Side glasses may be reversed at any time; all easily adjustable; all glasses in plain view from both sides; brass trimmings on both sides.

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STRAP and T HINGES—BUTT HINGES

Also a complete line of Shelf Brackets, Barn Door Hangers, Door Bolts, etc. Our wrought surface hinges are strong, massive and beautifully finished, and every one perfect. All Goods Guaranteed.

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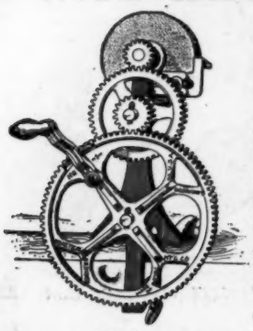

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Four sizes. Needed in every home—every day in the year. Every grinder guaranteed. Be sure; Get our catalogue with Discounts to the trade—to-day.

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Non-Overflow
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The can that never Overfills. The can that is unequaled for Simplicity, Cleanliness and Durability.

Does not run the oil over like other cans; the little "gurgle" tells when the lamp is full. It is safe and cleanly. After you hear the "gurgle" all the oil that is pumped returns to the can through the "Duplex Return Spout."

Should the pump give out within four years, we will furnish another free.

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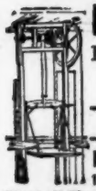

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Improved Quick and Easy, Rising Steam, Electric and Hand Power.

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Are Ideal in construction, Ideal in light producing power, Ideal in giving out steady light, Ideal in selling qualities, Ideal in lighting Dwellings, Stores, Hotels, Churches and Towns. Acetylene light is the safest, best, cheapest, brightest, finest light in the world, when produced in the Ideal Epworth Generators. Satisfaction guaranteed. Agents wanted.

IDEAL EPWORTH ACETYLENE CO., (Successors to Epworth Gas, Light & Heating Co., Waterloo, Iowa.)
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Our No. 151 Ice Pick

This will soon come in handy for hot weather. Learn all about its merits by reading the **Green Book.**

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New Styles—Have You Seen Them?

Are Without Equal in Quality or Efficiency in Practical Use

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RATCHET DRIVER with SCREW HOLDER NOS. 110-111-113

RATCHET "SCREW EYE" DRIVER, NOS. 80 and 81

ASK YOUR JOBBER ABOUT THEM

Send for "Yankee" Tool Catalog.

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100 Tinners' Patterns

Complete for $1.00

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Yes, sir, the Jack Frost Freezer makes money for every dealer who handles it, simply and solely because it makes good "cream" for the man who gets it and because it's easy running, durable, and an ice economizer.

Your customers are just as particular as any other dealer's and just as appreciative of a freezer that **looks** good and plays the part it looks.

Best Multiple-Motion Freezer

You can't beat this multiple-motion freezer any way you may test it. Mechanical construction allows no **lost** motion; self-lubricating and all gearing covered so no oil or salt can get in can. Tub made of seasoned, kiln-dried lumber that doesn't warp, shrink or rot. Can is high-grade charcoal plate throughout, cover being drawn absolutely seamless. All metal parts heavily galvanized.

Ask to know more about the Jack Frost Freezer. Our proposition is ready for you and will interest you. Your profit on the Jack Frost is good and the freezer always "makes good," which brings the same customer back to your store to buy other goods. For details and particulars. Write us, asking for Catalogue No. 75.

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Makers of

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is absolutely free from poisonous substance, is made by careful, experienced men, by a company founded in 1850. The first enameled ware and blue and white ware made in this country was made in our mills. We know how to make enameled ware safe and durable. We make it safe and durable because we are proud of the trade mark. Look for the blue label.

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An Inexpensive

Dandelion
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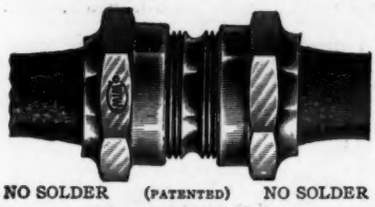

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DOUBLE BALL BEARING. FLY WHEEL UNDER THE TUB. HIGHEST SPEED. EASIEST RUNNING. QUICKER REVERSE. FOOT POWER ATTACHMENT. TUB OPENS WHEN MACHINE IS IN FULL MOTION. FIVE YEARS' GUARANTEE. SOLD TO ONLY ONE DEALER IN EACH TOWN.

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The White Way

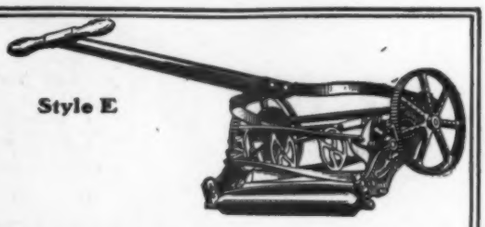
White Lily Manufacturing Co.
1500 Rockingham Road, - Davenport, Iowa

INFERIOR MADE LAWN MOWERS

do not give satisfaction—never did and never will. Mowers that are perfect in all the parts, carefully assembled and accurately adjusted are the trade winners. Try the Coldwell Line and see if it is not so.

COLDWELL LAWN MOWER CO.
Makers of Good Lawn Mowers
103 Lake Street, CHICAGO, ILL. NEWBURGH, N. Y.

Style A



Style E

The Big 4 Combination in Lawn Mowers

Send for circular and prices.

The Genuine PHILADELPHIA Lawn Mowers

Unsurpassed Why Perfection

Unequalled Why Simple

Unrivalled Why Durable

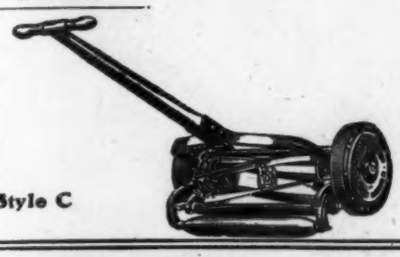
all have the words Philadelphia Lawn Mower Co. cast on the wheels of the mower. See you make no mistake in ordering.

Are made in
6½ to 12 in. wheels
3 to 8 blades
17 style hand
5 horse mower

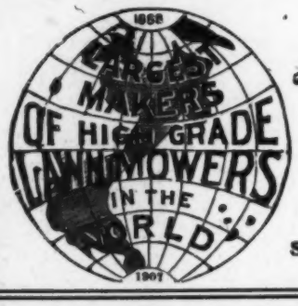
THE PHILADELPHIA LAWN MOWER CO.

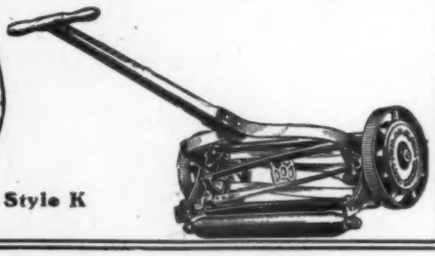
3101 to 3109 Chestnut Street, PHILADELPHIA, PA., U. S. A.

Standard Mowers the world over.



Style C





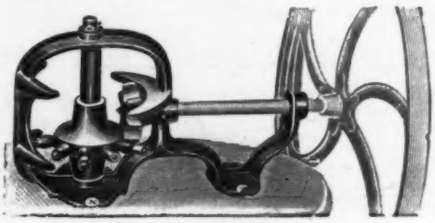
Style K

SIMPLICITY vs. COMPLICATION

EVERY good dealer knows that the fewer the parts of a mechanism, the less the friction. This is equally true when applied on washing machine gearings, hence permit us to remind you once more of the

Wonderful Simplicity of Construction

Embodied in



the Gearing of our

Unsurpassed **"O. K."** Rotary

All unnecessary parts have been eliminated, giving us a reciprocating mechanism unequalled for

SIMPLICITY, STRENGTH, DURABILITY and EASE of Operation.

THE TUB. We pride ourselves upon the fact that it's the best made.

THE FINISH. It can't be beat, it's handsome and lasting too.

Write for Particulars—DO IT TO-DAY.

H. F. BRAMMER MFG. CO., Davenport, Iowa

MAR 23 1908
PER. NOT ENT'D.

DO YOU WANT THE BEST ROOFING TIN?

WE CAN SUPPLY YOUR DEMANDS
IN THIS MATERIAL
MADE FROM EITHER CHARCOAL IRON OR STEEL

"THE ROOFING OF QUALITY"

PROMPT SHIPMENTS

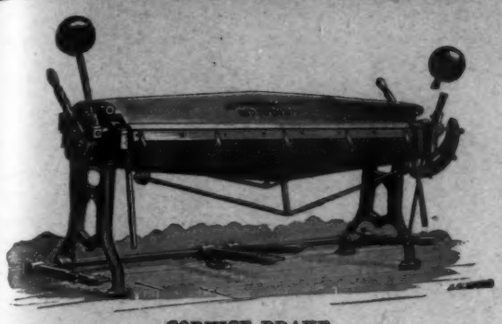
EAVES TROUGH and CONDUCTOR PIPE
BLACK and GALVANIZED SHEETS
COPPER in SHEETS and ROLLS
SOLDER

Write for our monthly stock list

THE BASSETT - PRESLEY CO.

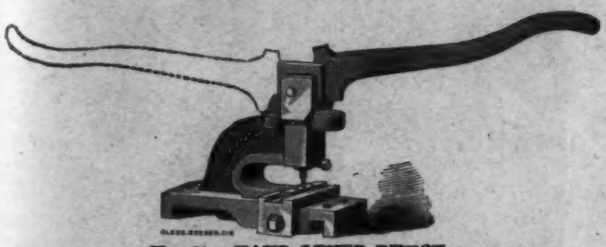
OFFICES 402-415 WESTERN RESERVE BLDG.

CLEVELAND, OHIO



CORNICE BRAKE

No. 59. HAND LEVER SHEARS
Will cut No. 16 Gauge material, a swath of 3¼-inch.
Weight, 20 pounds.



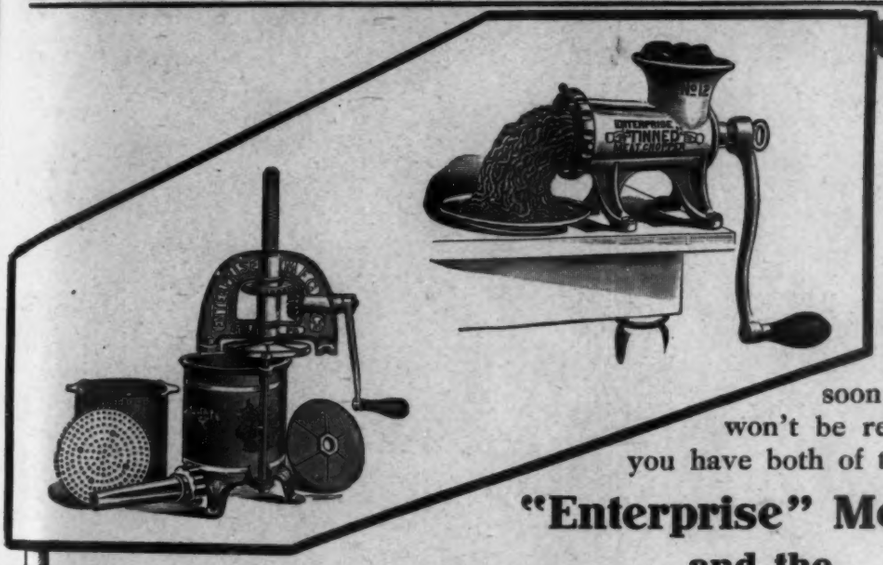
No. 61. HAND LEVER PUNCH
Will punch $\frac{3}{16}$-inch holes in ½-inch iron.

The J. M. Robinson Mfg. Co.
3282 to 3288 Spring Grove Avenue
CINCINNATI, O., U. S. A.

IT WILL PAY YOU to enter into Competition for the

$100.00 IN GOLD

for the Annual Prize WINDOW Competition of The American Artisan.



Hurry Up!

Sausage time will soon be here and you won't be ready for it unless you have both of these—the

"Enterprise" Meat Chopper
and the
"Enterprise" Sausage Stuffer and Lard Press

One chops the meat and the other stuffs the sausages as "easy as can be," in the shortest time with the least effort, and the sausages are as "good as can be."

The *"Enterprise" Sausage Stuffer* has the cylinder bored absolutely true, and has a Patent Corrugated Spout that allows air to escape from the casing as the sausage is stuffed, thus assuring the preservation of the sausage. Take time by the forelock and jog your jobber *now.*

The Enterprise Manufacturing Co. of Pa.
Philadelphia, U. S. A.
21 Murray Street, New York — 438 Market Street, San Francisco

MAR 23 1908
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DO YOU WANT THE BEST ROOFING TIN?

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Write for our monthly stock list

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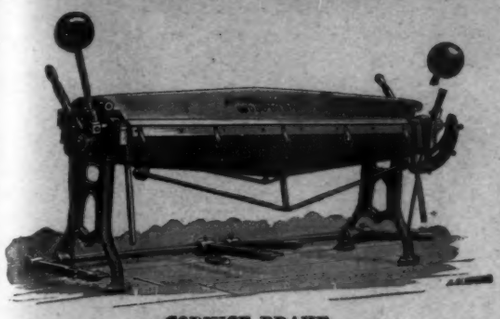

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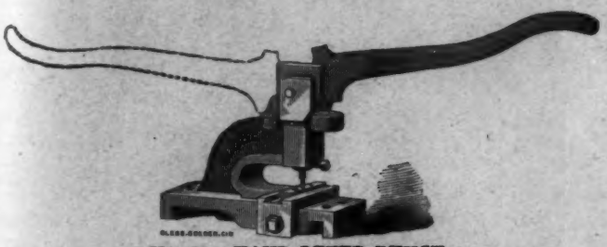

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The Enterprise Manufacturing Co. of Pa.
Philadelphia, U. S. A.

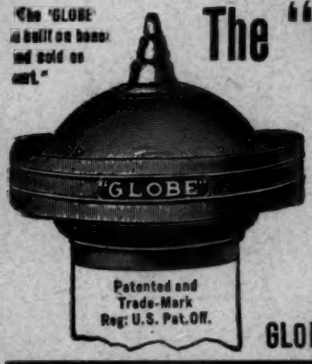
21 Murray Street, New York — 438 Market Street, San Francisco

THE IMPROVED ONE-PIECE MITER

This miter is made absolutely correct, true to shape, size, and bead, and the easiest connecting slip joint. Will save your time and temper. In case your supply house cannot furnish them, send your order direct to the

J. E. WHITACRE MFG. CO.
ROCKFORD, ILL.
Manufacturers of Sheet Metal Specialties

"The 'GLOBE' is built on honor and sold on merit."



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in COPPER, GALVANIZED IRON and with Glass Tops for Sky-light purposes.

ABSOLUTELY STORM PROOF

For Perfectly Ventilating Schools, Churches, Halls, Mills, Factory and Audience Rooms of Every Character

SMOKY CHIMNEYS CURED
"GLOBE VENTILATED RIDGING"
Send for Pamphlet.
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GLOBE VENTILATOR CO., Troy, N. Y.

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Saves 80 per cent of room.
Stronger than a hand-made riveted thimble.
Always Ready to hook together.
The Lug is always on top and passes through two slots then tied. Does not interfere with the entering stove pipe.

The ECLIPSE Nested Stove Pipe Thimble is made of Galvanized Iron in sizes of 5, 6 and 7 inch.
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STUBER & KUCK, - Peoria, Ill.

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HAMMERED OPEN HEARTH
ROOFING TIN

Has no equal for either working or wearing qualities.

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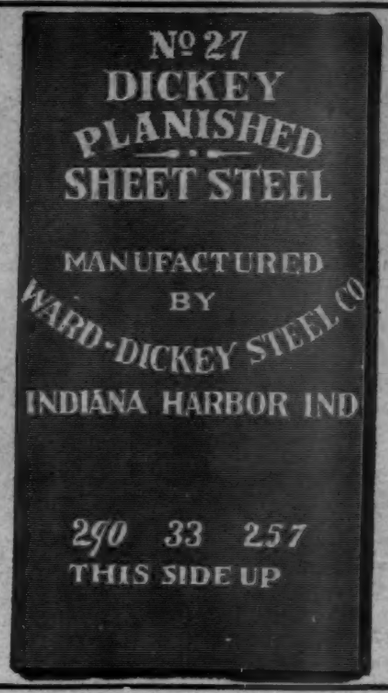

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For protection we pack the DICKEY Steel in metal cases for which no charge is made.

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WE MAKE A SPLENDID LINE OF

Dinner **Pails**

In designs to suit all requirements, and in various arrangements.

In various capacities and in round, square and oblong shapes.

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ALL KINDS

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ANYTHING TO FIT FROM THE SMALLEST WOOD SCREW TO THE LARGEST LAG OR MACHINE

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Fireproof Metal Windows
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Gutters and Conductors, Roofings of All Kinds.

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The only single cut off made to fit Corrugated and plain pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.

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